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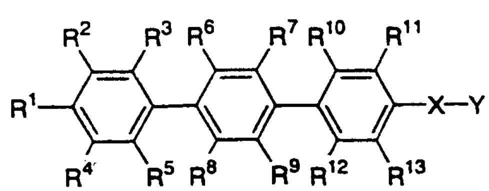
(54) **NOVEL p-TERPHENYL COMPOUNDS**

(57) The present invention provides a selective suppressor of the IgE production comprising a compound which suppresses the IgE production in a process from a differentiation of a mature B cell into an antibody-producing cell to the production of an antibody and which does not suppress or weakly suppresses the production of IgG, IgM and/or IgA which are produced at the same time, a compound of the formula (I):



(I)

wherein R^1 - R^{13} are hydrogen, halogen, lower alkyl, lower alkoxy or the like, X is - O-, $-CH_2-$, $-NR^{14}-$ or -S(O)p- and Y is lower alkyl, lower alkenyl or the like, a process for producing the same and a pharmaceutical composition comprising the same.

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Description

Technical Field

[0001] The present invention relates to a novel para-terphenyl compound, a process for producing the same, a selective suppressor of the IgE production, an immunosuppressor and an anti-allergic agent.

Background Art

[0002] A serious problem of a transplantation of a tissue or an organ which is frequently performed in recent years is a rejection symptom for excluding a transplanted part after an operation. Prevention of the rejection symptom is very important for a success of the transplantation.

[0003] Various immunosuppressors such as azathioprine, corticoid, Cyclosporin A, Tacrolimus and the like are developed and come into practical use for prevention and a treatment of a rejection symptom against a transplantation of an organ or a tissue or a graft-versus-host reaction which is caused by a bone marrow transplantation. But they are not so satisfactory in view of their effects and side effects.

[0004] Allergic diseases such as atopic dermatitis, allergic rhinitis, bronchial asthma, allergic conjunctivitis and the like globally tend to increase in recent years and become serious problems. The conventional antiinflammatory agents are suppressors of releasing chemical mediators from mast cells, receptor inhibitors of the chemical mediators released, suppressors of allergic inflammation reaction or the like. All of these are agents for symptomatic therapy and are not fundamental therapeutic agents for allergic diseases.

[0005] As an fundamental therapeutic agent for allergic diseases, a suppressor of the IgE antibody production has been expected.

[0006] One of compounds which have a suppressive effect on the IgE production is Suplatast Tosilate (IPD-1151-T). This is reported to act on T cell of type 2 (Th2 cell) to suppress the IL-4 production and to suppress a differentiation of B cells to IgE antibody-producing cells (Jpn. Pharmacol. (1993) 61, 31-39).

[0007] As compounds which directly act on B cells to suppress the IgE antibody production, for example, DSCG (Intal) or Nedcromil sodium which are degranulation inhibitors of mast cells are exemplified. These are reported to inhibit a class-switch of B cells (J. Exp. Med. (1994) 180: 663-671, J. Allergy Clin. Immunol.(1996) 97: 1141-1150). In J. Med. Chem. (1997) 40: 395-407, a compound which directly acts on B cells to suppress the IgE production is described.

[0008] Because immune globulins are necessary for phylaxis and a suppression of immune globulins other than IgE antibody is not preferable, an inhibitor which has a high selectivity to IgE and a potent effect has been desired.

[0009] The compounds which have an antiinflammatory effect and ortho-terphenyl structure are described in JP-A 60-13730, J. Med. Chem.(1996) 39: 1846-1856 and WO96/10012, and the compounds which have the same effect and biphenyl structure are described in JP-B 43-19935, JP-A 62-294650 and WO96/18606.

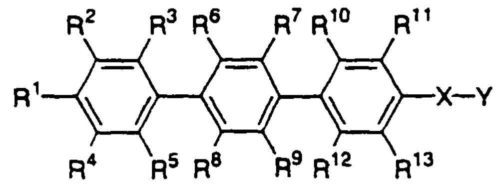
[0010] The compounds which have para-terphenyl structure are described in Chemical & Pharmaceutical Bulletin, 24 (4), 613-620 (1976), The Journal of Antibiotics, 32 (6), 559-564 (1979) and Agricultural Biological Chemistry, 49 (3), 867-868 (1985) but an immunosuppressive or antiinflammatory effect of these compounds is not described at all.

Disclosure of Invention

[0011] An object of the present invention is to provide a selective suppressor of the IgE production, an immunosuppressor, and/or an anti-allergic agent which has a potent suppressive effect on the IgE production, an immunosuppressive effect and/or an anti-allergic effect. Other object of the present invention is to provide novel compounds which have the above effects and a process for producing the same.

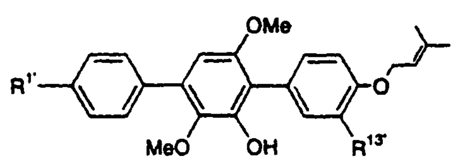
[0012] The present invention provides a selective suppressor of the IgE production, an immunosuppressor and/or an anti-allergic agent comprising a compound which suppresses the IgE production in a process from a differentiation of a mature B cell into an antibody-producing cell to the production of an antibody and which does not suppress or weakly suppresses the production of IgG, IgM and/or IgA which are produced at the same time. The present invention provides a method for selectively suppressing the IgE production or for suppressing an immune reaction or a method for treating and/or preventing allergic diseases comprising administering the compound. In another embodiment, the present invention provides use of the compound for the manufacture of a medicament for selectively suppressing the IgE production, suppressing the immune reaction or treating and/or preventing allergic diseases.

[0013] The present invention provides a compound of the formula (I) as an example of the compounds which has the above effects:



(I)

wherein R^1, R^2, R^3, R^4, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{11}, R^{12} and R^{13} are each independently hydrogen, hydroxy, halogen, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkenyl, optionally substituted lower alkenyloxy, optionally substituted lower alkylthio, optionally substituted lower alkoxycarbonyl, optionally substituted acyloxy, optionally substituted lower alkylsulfonyl, optionally substituted lower alkylsulfonyloxy, optionally substituted lower alkylsulfinyl, nitro, cyano, formyl, optionally substituted amino, optionally substituted carbamoyl, optionally substituted sulfamoyl or optionally substituted heterocyclyl,
X is -O-, $-CH_2-$,$-NR^{14}-$ wherein R^{14} is hydrogen, optionally substituted lower alkyl, optionally substituted lower alkenyl or acetyl, or -S(O)p- wherein p is an integer of 0 to 2,
Y is optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted acyl, optionally substituted cycloalkyl, optionally substituted cycloalkenyl, optionally substituted aryl or optionally substituted heterocyclyl, and Y may optionally be substituted lower alkoxy when X is $-CH_2-$ and may optionally be substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyl or optionally substituted arylsulfonyl when X is -O- or $-NR^{14}-$,
R^1 and R^4, R^1 and R^2, R^2 and R^3, R^4 and R^5, R^6 and R^7, R^8 and R^9, R^{10} and R^{11}, R^{12} and R^{13}, R^{11} and -X-Y, or R^{13} and -X-Y taken together may form a 5- or 6-membered ring which may contain one or more of O, S or NR^{15} wherein R^{15} is hydrogen, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted arylsulfonyl and which may optionally be substituted,
excluding compounds wherein one or more of R^6, R^7, R^8 and R^9 are halogen and the others are hydrogen, all of R^6, R^7, R^8 and R^9 are halogen and all of R^2-R^{13} are hydrogen, halogen or cyano,
provided that R^1 is not hydrogen, fluorine, optionally substituted lower alkyl or optionally substituted lower alkoxy, all of R^2, R^3, R^4, R^5 and R^{12} are hydrogen, or R^{13} is not hydrogen or halogen when R^6, R^7, R^8 and R^9 are all simultaneously hydrogen, and further provided that R^1 is not methyl or acetyloxy, R^{13} is not hydrogen, optionally substituted lower alkoxycarbonyl or optionally substituted carbamoyl, or - X-Y is not methoxy when at least one of R^6, R^7, R^8 and R^9 is a substituent other than hydrogen,
and excluding a compound of the formula (I'):

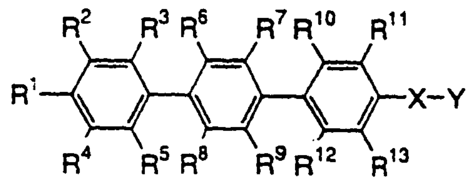


(I')

wherein $R^{1'}$ is hydrogen or hydroxy and $R^{13'}$ is hydroxy or methoxy, pharmaceutically acceptable salt, hydrate or prodrug thereof.

[0014] The present invention provides a pharmaceutical composition, more specifically a selective suppressor of the IgE production, an immunosuppressor or an anti-allergic agent, comprising the compound (I), pharmaceutically acceptable salt, hydrate or prodrug thereof.

[0015] The present invention provides a selective suppressor of the IgE production, an immunosuppressor and/or an anti-allergic agent comprising a compound of the formula (I''):



(I")

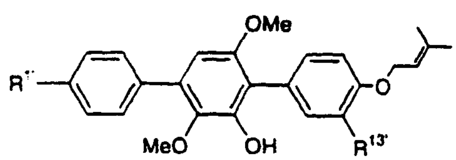
wherein R^1, R^2, R^3, R^4, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{11}, R^{12} and R^{13} are each independently hydrogen, hydroxy, halogen, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkenyl, optionally substituted lower alkenyloxy, optionally substituted lower alkylthio, optionally substituted lower alkoxycarbonyl, optionally substituted acyloxy, optionally substituted lower alkylsulfonyl, optionally substituted lower alkylsulfonyloxy, optionally substituted loner alkylsulfinyl, nitro, cyano, formyl, optionally substituted amino, optionally substituted carbamoyl, optionally substituted sulfamoyl or optionally substituted heterocyclyl,

X is -O-, $-CH_2-$, $-NR^{14}-$ wherein R^{14} is hydrogen, optionally substituted lower alkyl, optionally substituted lower alkenyl or acetyl, or -S(O)p- wherein p is an integer of 0 to 2,

Y is optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkyl, optionally substituted acyl, optionally substituted cycloalkyl, optionally substituted cycloalkenyl, optionally substituted aryl or optionally substituted heterocyclyl, and Y may optionally be substituted lower alkoxy when X is - CH_2- and may optionally be substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyl or optionally substituted arylsulfonyl when X is -O- or - NR^{14},

R^1 and R^4, R^1 and R^2, R^2 and R^3, R^4 and R^5, R^6 and R^7, R^8 and R^9, R^{10} and R^{11}, R^{12} and R^{13}, R^{11} and -X-Y, or R^{13} and -X-Y taken together may form a 5- or 6-membered ring which may contain one or more of O, S or NR^{15} wherein R^{15} is hydrogen, optionally substituted lower alkyl, optionally substituted lower alkenyl or optionally substituted arylsulfonyl and which may optionally be substituted,

excluding a compound of the formula (I'):

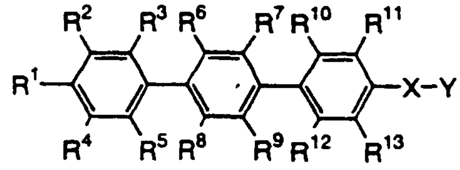


(I')

wherein $R^{1'}$ is hydrogen or hydroxy and $R^{13'}$ is hydroxy or methoxy, pharmaceutically acceptable salt, hydrate or prodrug thereof.

[0016] The present invention provides a method for selectively suppressing the IgE production, suppressing an immune reaction or treating or preventing allergic diseases comprising administering the compound (I) or (I"). In another embodiment, the present invention provides use of the compound (I) or (I") for manufacturing of a medicament for selectively suppressing the IgE production, suppressing the immune reaction or treating or preventing allergic diseases.

[0017] In one of the other embodiments, the present invention provides a process for producing a compound of the formula (I'"):



(I'")

the compound of the above formula (I) or (I'), pharmaceutically acceptable salt or hydrate thereof

wherein R^1, R^2, R^3, R^4, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{11}, R^{12} and R^{13} are each independently hydrogen, hydroxy, halogen, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkenyl, optionally substituted lower alkenyloxy, optionally substituted lower alkylthio, optionally substituted lower alkoxycarbonyl, optionally substituted acyloxy, optionally substituted lower alkylsulfonyl, optionally substituted lower alkylsulfonyloxy, optionally substituted lower alkylsulfinyl, nitro, cyano, formyl, optionally substituted amino, optionally substituted carbamoyl, optionally substituted sulfamoyl or optionally substituted heterocyclyl,

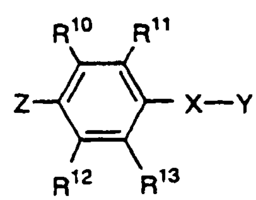
X is -O-, $-CH_2-$, $-NR^{14}-$ wherein R^{14} is hydrogen, optionally substituted lower alkyl, optionally substituted lower alkenyl or acetyl, or -S(o)p- wherein p is an integer of 0 to 2,

Y is optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted acyl, optionally substituted cycloalkyl, optionally substituted cycloalkenyl, optionally substituted aryl or optionally substituted heterocyclyl, and Y may optionally be substituted lower alkoxy when X is $-CH_2-$ and may optionally be substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyl or optionally substituted arylsulfonyl when X is -O- or $-NR^{14}$,

R^1 and R^4, R^1 and R^2, R^2 and R^3, R^4 and R^5, R^6 and R^7, R^8 and R^9, R^{10} and R^{11}, R^{12} and R^{13}, R^{11} and -X-Y, or R^{13} and -X-Y taken together may form a 5- or 6-membered ring which may contain one or more of O, S or NR^{15} wherein R^{15} is hydrogen, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted arylsulfonyl, and which may optionally be substituted,

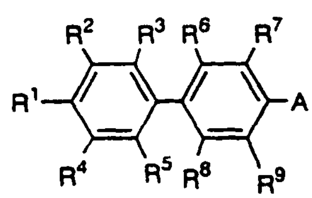
excluding a compound wherein one or more of R^6, R^7, R^8 and R^9 are halogen and the others are hydrogen, all of R^6, R^7, R^8 and R^9 are halogen and all of R^2-R^{13} are hydrogen, halogen or cyano,

provided that R^1 is not hydrogen, fluorine, optionally substituted lower alkyl or optionally substituted lower alkoxy, all of R^2, R^3, R^4, R^5 and R^{12} are hydrogen or R^{13} is not hydrogen or halogen when R^6, R^7, R^8 and R^9 are all simultaneously hydrogen, and further provided that R^1 is not methyl or acetyloxy, R^{13} is not hydrogen, optionally substituted lower alkoxycarbonyl or optionally substituted carbamoyl or - X-Y is not methoxy when at least one of R^6, R^7, R^8 and R^9 is a substituent other than hydrogen, pharmaceutically acceptable salt or hydrate thereof, which comprises reacting a compound of the formula (II):



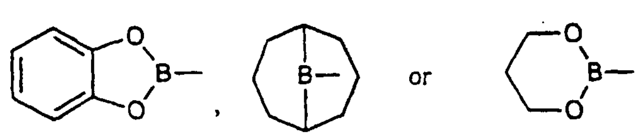
(II)

with a compound of the formula (III):



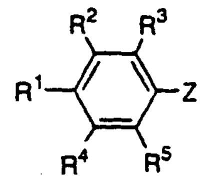
(III)

wherein, in the formulas (II) and (III), R^1 - R^{13}, X and Y are the same as defined in the above formula (I), either of A and Z is dihydroxyborane, di(lower)alkoxyborane, di(lower)alkylborane,



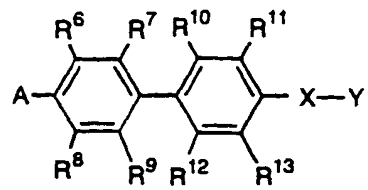
and the other is halogen or $-OSO_2(C_qF_{2q+1})-$ wherein q is an integer of 0 to 4,

or reacting a compound of the formula (II'):



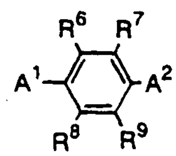
(II')

with a compound of the formula (III'):



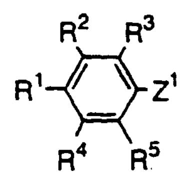
(III')

wherein, in the formulas (II') and (III'), R^1 - R^{13}, X and Y are the same as defined in the above formula (I) and A and Z are the same as defined in the above formulas (II) and (III). As another process, the present invention provides a process for producing the compound of the above formula (I'''), (I) or (I'), pharmaceutically acceptable salt or hydrate thereof comprising the reaction of a compound of the formula (IV):



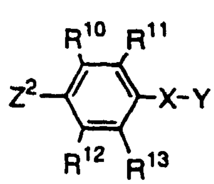
(IV)

with a compound of the formula (V):



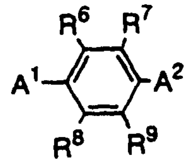
(V)

wherein, in the formulas (IV) and (V), R^1 - R^9 are the same as defined in the above formula (I), Z^1 is the same as Z defined in the above formula (II), A^1 and A^2 are each independently the same as A defined in the above formula (III) and the reactivity of A^1 is higher than or equal to that of A^2,
followed by the reaction with a compound of the formula (VI):



(VI)

wherein R^{10}-R^{13}, X and Y are the same as defined in the above formula (I) and Z^2 is the same as Z defined in the above formula (II) and a process for producing the compound of the above formula (I'''), (I) or (I'), pharmaceutically acceptable salt, hydrate thereof comprising the reaction of a compound of the formula (IV'):



(IV')

wherein R^6-R^9 is the same as defined in the above formula (I), A^1 and A^2 are each independently the same as A defined in the above formula (III) and the reactivity of A^2 is higher than or equal to that of A^1,
with a compound of the above formula (VI), followed by the reaction with a compound of the above formula (V).

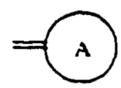
Brief Description of the Drawings

[0018]

Figure 1 shows an antibody production-suppressive effect on human peripheral lymphocytes of the compound (I-839) of the present invention. The ordinate represents a percentage of the amount of antibodies to that of antibodies which are produced in the absence of the compound. The abscissa represents a concentration of the compound.
Figure 2 shows an antibody production-suppressive effect on human peripheral lymphocytes of the compound No. 36. The ordinate represents a percentage of the amount of antibodies to that of antibodies which are produced in the absence of the compound. The abscissa represents a concentration of the compound.
Figure 3 shows an antibody production-suppressive effect on mouse spleen lymphocytes of the compound (I-967) of the present invention. The ordinate represents a percentage of the amount of antibodies to that of antibodies which are produced in the absence of the compound. The abscissa represents a concentration of the compound.
Figure 4 shows a suppressive effect of the compound (I-963) of the present invention for an infiltration of inflammatory cells to irrigation water of pulmonary alveolus by an antigen stimulation on mice. The ordinate represents the number of inflammatory cells and the abscissa represents the number of total inflammatory cells, the number of macrophages, the number of eosinophils and the number of neutrophils. The white column represents a group inhaling saline instead of ovalbumin, the black column represents a group inhaling an antigen to cause inflammation and without administration of any compound of the present invention, and the gray column represents a group inhaling an antigen to cause inflammation with administration of the compound of the present invention.

Best Mode for Carrying Out the Invention

[0019] In the present specification, the term "halogen" includes fluorine, chlorine, bromine and iodine. Fluorine or chlorine is preferable. The halogen in the term "halogeno(lower)alkyl", "halogeno(lower)alkenyl" and "halogenoaryl" is the same as above.
[0020] The term "lower alkyl" represents straight or branched chain alkyl having 1 to 10 carbon atoms, preferably 1 to 8 carbon atoms, more preferably 1 to 6 carbon atoms and most preferably 1 to 4 carbon atoms. For example, included are methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, sec-butyl, tert-butyl, n-pentyl, isopentyl, neopentyl, hexyl, isohexyl, n-heptyl, isoheptyl, n-octyl, isooctyl, n-nonyl, n-decyl and the like.
[0021] As substituents of the "optionally substituted lower alkyl" in R^1 - R^{13}, R^{14} and R^{15} exemplified are halogen; hydroxy; lower alkoxy optionally substituted with lower alkoxy; carboxy; lower alkoxycarbonyl; acyloxy and the like and the lower alkyl may be substituted with one or more of these substituents at any possible positions.
[0022] As substituents for "optionally substituted lower alkyl" in Y exemplified are halogen; hydroxy; carboxy; lower alkoxycarbonyl; lower alkoxy optionally substituted with lower alkoxy; acyl; acyloxy; amino optionally substituted with hydroxy or lower alkyl; imino optionally substituted with hydroxy, lower alkoxy, carboxy(lower)alkoxy, aryl(lower)alkoxy or heterocyclyl; hydrazono optionally substituted with carbamoyl or lower alkoxycarbonyl; cycloalkyl optionally substituted with lower alkyl; cycloalkenyl optionally substituted with lower alkyl; cyano; carbamoyl optionally substituted with lower alkyl or amino; thiocarbamoyl optionally substituted with lower alkyl;



wherein ring A represents cycloalkyl or heterocyclyl;

aryl optionally substituted with lower alkyl, halogeno(lower)alkyl, carboxy(lower)alkyl, lower alkoxycarbonyl(lower)alkyl, halogen, hydroxy, lower alkoxy, carboxy, lower alkoxycarbonyl, lower alkenyloxycarbonyl, acyloxy, nitro, cyano, amino, lower alkoxycarbonylamino, acylamino, lower alkylsulfonylamino, lower alkylamino or guanidino; or

heterocyclyl optionally substituted with lower alkyl (optionally substituted with heterocyclyl), halogen, hydroxy, carbon, lower alkoxycarbonyl, lower alkylsulfonyl, lower alkylarylsulfonyl, mercapto, lower alkylthio or heterocyclyl optionally substituted with aryl.

[0023] The alkyl part of "halogeno(lower)alkyl", "hydroxy(lower)alkyl", "carboxy(lower)alkyl", "lower alkoxycarbonyl(lower)alkyl", "lower alkylthio", "lower alkylamino", "lower alkylsulfonyl", "lower alkylsulfonyloxy", "lower alkylsulfonylamino", "lower alkylsulfinyl", "lower alkylaryl", "lower alkylarylsulfonyl", "di(lower)alkylcarbamoyl", "di(lower)alkylborane, "lower alkoxy", "carboxy(lower)alkoxy", "aryl(lower)alkoxy", "lower alkoxy(lower)alkoxy", "lower alkoxyaryl" or "di(lower)alkoxyborane" is the same as defined in the above "lower alkyl". As substituents in the case of being "optionally substituted" exemplified are halogen; hydroxy; lower alkoxy; carboxy; lower alkoxycarbonyl; acyloxy; cycloalkyl; aryl optionally substituted with lower alkyl; heterocyclyl and the like. These substituents may substitute at one or more of any possible positions.

[0024] The part of lower alkyl in "lower alkoxycarbonyl" is the same as the above defined "lower alkyl" and substituents for "optionally substituted lower alkoxycarbonyl" are the same as those for the above "optionally substituted lower alkoxy".

[0025] The part of "lower alkoxycarbonyl" in "lower alkoxycarbonyl(lower)alkyl", "lower alkoxycarbonyl(lower)alkenyl" or "lower alkoxycarbonylamino" is the same as the above defined "lower alkoxycarbonyl".

[0026] The term "lower alkenyl" represents straight or branched chain alkenyl having 2 to 10 carbon atoms, preferably 2 to 8 carbon atoms and more preferably 3 to 6 carbon atoms. For example included are vinyl, propenyl, isopropenyl, butenyl, isobutenyl, butadienyl, pentenyl, isopentenyl, pentadienyl, hexenyl, isohexenyl, hexadienyl, heptenyl, octenyl, nonenyl, decenyl and the like and these have one or more double bonds at any possible positions. Substituents for "optionally substituted lower alkenyl" are the same as that for the above "optionally substituted lower alkoxy".

[0027] The part of lower alkenyl in "lower alkoxycarbonyl(lower)alkenyl", "halogeno(lower)alkenyl", "lower alkenyloxy", "lower alkenyloxycarbonyl" or "lower alkenylamino" is the same as the above defined "lower alkenyl".

[0028] Substituents for "optionally substituted lower alkenyloxy" are the same as those for the above "optionally substituted lower alkoxy".

[0029] The term "lower alkynyl" represents straight or branched chain alkynyl having 2 to 10 carbon atoms, preferably 2 to 8 carbon atoms and more preferably 3 to 8 carbon atoms. Specifically, included are ethynyl, propynyl, butynyl, pentynyl, hexynyl, heptynyl, octynyl, nonyl, decynyl and the like. These have one or more triple bonds at any possible positions and may further have a double bond. Substituents for "optionally substituted lower alkynyl" are the same as those for the above "optionally substituted lower alkoxy".

[0030] The term "acyl" represents aliphatic acyl which includes chain acyl having 1 to 10 carbon atoms, preferably 1 to 8 carbon atoms, more preferably 1 to 6 carbon atoms, most preferably 1 to 4 carbon atoms and cyclic acyl having 3 to 8 carbon atoms, preferably 3 to 6 carbon atoms, and aroyl. Specifically, included are formyl, acetyl, propionyl, butyryl, isobutyryl, valeryl, pivaloyl, hexanoyl, acryloyl, propioloyl, methacryloyl, crotonoyl, cyclohexanecarbonyl, benzoyl and the like. Substituents for "optionally substituted acyl" are the same as those for "optionally substituted lower alkoxy" and aroyl may further be substituted with lower alkyl.

[0031] The part of acyl in "acyloxy" or "acylamino" is the same as the above identified "acyl" and substituents for "optionally substituted acyloxy" are the same as those for the above "optionally substituted acyl".

[0032] The term "cycloalkyl" represent cyclic hydrocarbon having 3 to 6 carbon atoms and includes, for example, cyclopropyl, cyclobutyl, cyclopentyl cyclohexyl and the like. As substituents for "optionally substituted cycloalkyl" exemplified are lower alkyl, halogen, hydroxy, carboxy, lower alkoxycarbonyl, lower alkoxy, aryl, heterocyclyl and the like and the cycloalkyl may be substituted at any possible positions.

[0033] The term "cycloalkenyl" represents the group having one or more double bonds at any possible positions in the above cycloalkyl and included are, for example, cyclopropenyl, cyclobutenyl, cyclopentenyl, cyclohexenyl, cyclohexadienyl and the like. Substituents for "optionally substituted cycloalkenyl" are the same as those for the above identified

"cycloalkyl".

[0034] The term "optionally substituted amino" includes substituted amino and unsubstituted amino and substituents exemplified are lower all optionally substituted with lower alkylaryl etc.; lower alkenyl optionally substituted with halogen; lower alkylsulfonyl; lower alkylarylsulfonyl; lower alkoxycarbonyl; sulfamoyl; acyl optionally substituted with halogen; carbamoyl and the like.

[0035] The term "optionally substituted carbamoyl" includes substituted carbamoyl and unsubstituted carbamoyl and substituents exemplified are lower alkyl; lower alkylsulfonyl; sulfamoyl; acyl optionally substituted with halogen; amino and the like.

[0036] The term "optionally substituted sulfamoyl" includes substituted sulfamoyl and unsubstituted sulfamoyl and substituents exemplified are lower alkyl optionally substituted with aryl; lower alkenyl and the like.

[0037] The term "aryl" includes phenyl, naphthyl, anthryl, indenyl, phenanthryl and the like. Substituents for "optionally substituted aryl" exemplified are lower alkyl optionally substituted with halogen or carboxy; hydroxy; halogen; lower alkoxy; lower acyloxy; carboxy; lower alkoxycarbonyl; lower alkenyloxycarbonyl; amino optionally substituted with lower alkyl, lower alkylsulfonyl, lower alkoxycarbonyl or acyl; guanidino; nitro; aryl; heterocyclyl and the like and "optionally substituted aryl", may be substituted with one or more of these substituents at any possible positions.

[0038] The part of aryl in "lower alkylaryl", "halogenoaryl", "lower alkoxyaryl", "arylsulfonyl", "aryl(lower)alkoxy", "lower alkylarylsulfonyl", "heterocyclyl substituted with aryl", "aroyl" or "aroyloxy" is the same as the above "aryl" and the substituents for "optionally substituted" are also the same as those for in the above "optionally substituted aryl".

[0039] The term "heterocyclyl" represents a heterocyclic group which contains one or more of hetero atoms arbitrarily selected from a group of O, S and N and exemplified are 5-or 6- membered aromatic heterocyclyl such as pyrrolyl, imidazolyl, pyrazolyl, pyridyl, pyridazinyl. pyrmidinyl, pyrazinyl, triazolyl, triazinyl, isoxazolyl, oxazolyl, oxadiazolyl, isothiazolyl, thiazolyl, thiaziazolyl, furyl, thienyl etc., condensed aromatic heterocyclyl such as indolyl, carbazolyl, acridinyl, benzimidazolyl, indazolyl, indolizinyl, quinolyl, isoquinolyl, cinnolinyl, phthalazinyl, quinazolinyl, naphthyridinyl, quinoxalinyl, purinyl, pteridinyl, benzisoxazolyl, benzoxazolyl, benzoxadiazolyl, benzisothiazolyl, benzothiazolyl, benzothiaziazolyl, benzofuryl, benzothienyl, benzotriazolyl etc., and alicyclic heterocyclyl such as dioxanyl, thiiranyl, oxiranyl, oxathioranyl, azetidinyl, thianyl, pyrrolidinyl, pyrrolinyl, imidazolidinyl, imidazolinyl, pyrazolidinyl, pyrazolinyl, piperidyl, piperazinyl, morpholinyl etc. As substituents for "optionally substituted heterocyclyl" exemplified are lower alkyl, lower alkenyl, hydroxy, halogen, carboxy, lower alkoxycarbonyl, lower alkoxy, mercapto, lower alkylthio, lower alkylsulfonyl, aryl, heterocyclyl and the like and the heterocyclyl may be substituted with one or more of these substituents at any possible positions. The part of heterocycle in "heterocyclyl substituted with aryl" is the same as the above "heterocyclyl".

[0040] The term "5- or 6-membered ring which may contain one or more of O, S or NR^{15} and may optionally be substituted" represents a 5- or 6-membered ring which is formed by R^1 and R^4, R^1 and R^2, R^2 and R^3, R^4 and R^5, R^6 and R^7, R^8 and R^9, R^{10} and R^{11}, R^{12} and R^{13}, R^{11} and -X-Y, or R^{13} and -X-Y with the two carbon atoms constituting phenyl to which the above substituents are attached. For example, the above substituents taken together form $-(CH_2)_3-$, $-(CH_2)_4-$, $-O(CH_2)_mO-$, $-O(CH_2)n-$, $-(CH_2(_nO-$, $-S(CH_2)_mS-$, $-S(CH_2)_n-$, $-(CH_2)_nS-$, $-NR^{15}(CH_2)_mNR^{15}-$, $-NR^{15}(CH_2)_n-$, $-(CH_2)_nNR^{15}-$, $-O(CH_2)_mS-$, $-S(CH_2)_mO-$, $-S(CH_2)_mNR^{15}-$, $-NR^{15}(CH_2)_mS-$, $-(CH_2)_mNR^{15}-$, $-NR^{15}(CH_2)_mO-$, -O-CH=CH-, -CH=CH-O-, -S-CH=CH-, -CH=CH-S-, $-NR^{15}$-CH=CH-, -CH=CH-NR^{15}-, -S-CH=N-, -N=CH-S, -S-N=CH-, -CH=N-S-, -O-CH=N-, -N=CH-O-, -O-N=CH-, -CH=N-O-, -NR^{15}-CH=N-, -N=CH-NR^{15}-, -NR^{15}-N=CH-, -CH=N-NR^{15}-, -N=CH-CH=CH-, -CH=CH-CH=N-, -N=N-CH=CH-, -CH=CH-N=N-, -N=CH-N=CH-, -CH=N-CH=N-, -N=CH-CH=N- (m is 1 or 2 and n is 2 or 3) or the like and further these and the two carbon atoms constituting phenyl taken together form a 5-or 6- membered ring. These rings may be substituted with one or more of hydroxy; halogen; lower alkyl optionally substituted with lower alkoxycarbonyl or heterocyclyl; lower alkenyl optionally substituted with halogen; lower alkyliden optionally substituted with halogen; or the like. The substituents of "5- or 6-membered ring which may contain one or more of O or NR^{15} and may optionally be substituted", "5-or 6- membered ring which contains one or more of O or NR^{15} and may optionally be substituted" and "5-or 6- membered ring which contains one or more of O and may optionally be substituted" are the same as the above unless otherwise defined.

[0041] The term "lower alkylidene" represents straight or branched alkylidene having 1 to 6 carbon atoms, preferably 1 to 4 carbon atoms, more preferably 1 to 3 carbon atoms and includes, for example, methylene, ethylidene, isopropylidene, vinylidene, methytidyne and the like.

[0042] The term "all of R^2-R^{13} are hydrogen, halogen or cyano" represents, for example, the case that R^2-R^{13} are the same or different and hydrogen, halogen or cyano. For example, included are the case that all of R^2-R^{13} are hydrogen, the case that all of them are halogen, the case that some are halogen and the others are hydrogen, the case that some are cyano and the others are hydrogen, the case that some are halogen, some are cyano and the others are hydrogen and the like.

[0043] The term "compound (I)", "compound (I')" or "compound (I'")" also includes formable and pharmaceutically acceptable salts of each compounds. As "the pharmaceutically acceptable salt", exemplified are salts with mineral acid such as hydrochloric acid, sulfuric acid, nitric acid, phosphoric acid, hydrofluoric acid, hydrobromic acid and the like; salts with organic acids such as formic acid, acetic acid, tartaric acid, lactic acid, citric acid, fumaric acid, maleic acid,

succinic acid and the like; salts with organic bases such as ammonium, trimethylammonium, triethylammonium and the like; salts with alkaline metals such as sodium, potassium and the like and salts with alkaline earth metals such as calcium, magnesium and the like.

[0044] The compound of the present invention includes hydrates and all of stereoisomers, for example, atropisomers etc. thereof.

[0045] The compound of the present invention includes prodrugs thereof. The term "prodrug" means a group of compounds which are easily changeable to the compounds (I) or (I") which have activities in living bodies. The prodrug may be prepared by usual reactions. As usual methods for producing predrugs exemplified is the substitution of hydroxy by acyloxy substituted with carboxy, sulfo, amino, lower alkylamino or the like, phosphonoxy or the like. The substitution of hydroxy attached to R^1 by $-OCOCH_2CH_2COOH$, $-OCOCH=CHCOOH$, $-OCOCH_2SO_3H$, $-OPO_3H_2$, $-OCOCH_2NMe_2$, -OCO-Pyr (Pyr is pyridine) or the like is preferable.

[0046] In the present specification, the term "compound (I)" represents a group comprising novel compounds excluding the compound (I'), the term "compound (I")" represents a group comprising the compound (I) and known compounds and the term "compound (I'")" represents a group comprising the compound (I) and the compound (I').

[0047] All of the compounds (I) and (I") have a suppressive effect on the IgE production, an immunosuppressive effect and/or an anti-allergic effect and the following compounds are specifically preferable.

[0048] In the formulas (I) and (I"),

1) a compound wherein R^1, R^2, R^3, R^4, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{11}, R^{12} and R^{13} are each independently hydrogen, hydroxy, halogen, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkenyl, optionally substituted loner alkenyloxy, optionally substituted lower alkylthio, optionally substituted lower alkoxycarbonyl, optionally substituted acyloxy, optionally substituted lower alkylsulfonyloxy, formyl, optionally substituted amino, optionally substituted carbamoyl or optionally substituted sulfamoyl,

X is -O-, $-CH_2-$,$-NR^{14}-$ wherein R^{14} is hydrogen or optionally substituted lower alkyl, or -S(O)p- wherein p is an integer of 0 to 2,
Y is optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted acyl or optionally substituted cycloalkenyl, and
R^1 and R^4, R^1 and R^2, R^8 and R^9, R^{11} and -X-Y, or R^{13} and -X-Y taken together may form a 5- or 6-membered ring which may contain one or more of O or NR^{15},

2) a compound wherein R^1 is hydrogen, hydroxy, halogen, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkenyloxy, optionally substituted lower alkylthio, optionally substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyloxy, lower alkylsulfonyl, formyl, optionally substituted amino, lower alkylsulfinyl, acyloxy, nitro, cyano, optionally substituted sulfamoyl or heterocyclyl,

R^2 is hydrogen, hydroxy, halogen, optionally substituted lower alkyl or optionally substituted lower alkylsulfonyloxy,
R^3 is hydrogen, hydroxy, halogen or optionally substituted lower alkoxy,
R^4 is hydrogen, optionally substituted lower alkyl, halogen, optionally substituted lower alkoxy, nitro or optionally substituted amino,
R^5 is hydrogen, optionally substituted lower alkoxy, lower alkoxycarbonyl or carboxy,
R^6 is hydrogen, halogen, optionally substituted lower alkyl, carboxy, lower alkoxycarbonyl, nitro, formyl, amino or lower alkylsulfonyloxy,
R^7 and R^8 are each independently hydrogen, halogen, optionally substituted lower alkyl, optionally substituted lower alkoxy, formyl or optionally substituted amino,
R^9 is hydrogen, hydroxy, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkenyl, optionally substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyloxy, formyl, optionally substituted carbamoyl or optionally substituted amino,
R^{10} is hydrogen or lower alkoxy,
R^{11} is hydrogen, halogen, optionally substituted lower alkyl, carboxy, lower alkoxycarbonyl, optionally substituted lower alkylsulfonyloxy, formyl, nitro or amino,
R^{12} is hydrogen,
R^{13} is hydroxy, halogen, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkenyloxy, optionally substituted acyloxy, optionally substituted lower alkylsulfonyloxy, formyl, nitro or optionally substituted amino, and further R^{13} may be hydrogen in the formula (I"),
Y is optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted acyl or optionally substituted cycloalkenyl and Y may be optionally substituted lower

lower alkynyl, optionally substituted cycl
koxycarbonyl or optionally substituted ac
r may form a 5- or 6-membered ring which
above and which may optionally be substi
droxy; amino optionally substituted with l
yl; cycloalkenyl; cyano; imino optionally
er)alkoxy or heterocyclyl; hydrazono optio
optionally substituted with lower alkyl or a
ly substituted with amino (optionally subst
), nitro, acyloxy, lower alkyl (optionally subs
koxycarbonyl, lower alkenyloxycarbonyl or
kyl;

er alkenyl optionally substituted with halog
erocyclyl; lower alkynyl optionally substitut
),
re preferably Y is lower alkyl optionally su
aryl, lower alkoxyaryl, heterocyclyl or acyl
l (hereinafter referred to as "Y is Y3"),
st preferably Y is isopropyl, ethoxycarbonyl
henylmethyl, methoxyphenylmethyl, pyrid
hydroxymethylbutenyl, pentenyl, methylp
mopropenyl, dibromopropenyl, fluoroprop
nylpropenyl (hereinafter referred to as "Y i

ompound wherein R^1 is R1-2, R^2 is R2-1, F
^{9} is R9-2, R^{10} is R10-1, R^{11} is R11-1, R^{12}
R^4, R^8 and R^9, or R^{13} and - X-Y taken tog
O or NR^{15} wherein R^{15} is the same as def
ompound wherein R^1 is R1-2, R^2 is R2-1, F
^{9} is R9-1, R^{10} is R10-1, R^{11} is R11-1, R^{12}
R^4, R^8 and R^9, or R^{13} and - X-Y taken tog
O or NR^{15} wherein R^{15} is the same as def
ompound wherein R^1 is R1-2, R^2 is R2-1, F
^{9} is R9-1, R^{10} is R10-1, R^{11} is R11-1, R^{12}
R^4, R^8 and R^9 or R^{13} and - X-Y taken tog
O or NR^{15} wherein R^{15} is the same as def
ompound wherein R^1 is R1-1, R^2 is R2-1, F
^{9} is R9-2, R^{10} is R10-1, R^{11} is R11-1, R^{12}
R^4, $R^8$and R^9, or R^{13} and-X-Y taken toge
O or NR^{15} wherein R^{15} is the same as def
ompound wherein R^1 is R1-1, R^2 is R2-1, F
^{9} is R9-2, R^{10} is R10-1, R^{11} is R11-1, R^{12}
R^4, R^8 and R^9, or R^{13} and - X-Y taken tog
O or NR^{15} wherein R^{15} is the same as def
ompound wherein R^1 is R1-1, R^2 is R2-1, F
^{9} is R9-1, R^{10} is R10-1, R^{11} is R11-1, R^{12}
R^4, R^8 and R^9 or R^{13} and - X-Y taken tog
O or NR^{15} wherein R^{15} is the same as def
ompound wherein R^1 is R1-2, R^2 is R2-1, F
^{9} is R9-2, R^{10} is R10-1, R^{11} is R11-1, R^{12}
R^4, R^8 and R^9, or R^{13} and - X-Y taken tog
O or NR^{15} wherein R^{15} is the same as def
ompound wherein R^1 is R1-2, R^2 is R2-1, F
^{9} is R9-2, R^{10} is R10-1, R^{11} is R11-1, R^{12}
R^4, R^8 and R^9, or R^{13} and - X-Y taken tog
O or NR^{15} wherein R^{15} is the same as def
ompound wherein R^1 is R1-2, R2 is R2-1, F

alkoxycarbonyl, optionally substituted lower alkylsulfonyl or optionally substituted arylsulfonyl w -NR^{14}-, and

R^1 and R^2, R^1 and R^4, R^8 and R^9, R^{11} and -X-Y, or R^{13} and -X-Y taken together may form a 5- ring which contains one or more of O or NR^{15} wherein R^{15} is the same as defined above and wh ally be substituted,

3) a compound wherein R^1 is hydrogen, hydroxy, halogen, carboxy, optionally substituted lower substituted lower alkoxy, optionally substituted lower alkenyloxy, optionally substituted lower alky substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyloxy, lower alkylsulfonyl, fo substituted amino, lower alkylsulfinyl, acyloxy, nitro, cyano, optionally substituted sulfamoyl or heter after referred to as "R^1 is R1-1") or R^1 and R^2 or R^4 taken together form a 5- or 6-membered ring one or more of O or NR^{15} wherein R^{15} is the same as defined above and which may optionally be

preferably R^1 is hydrogen, hydroxy, halogen, optionally substituted lower alkoxy, optionally su alkenyloxy, optionally substituted lower alkylsulfonyloxy, optionally substituted amino, optionally famoyl (hereinafter referred to as "R^1 is R1-2"), or R^1 and R^2 or R^4 taken together form a 5-or 6- which contains one or more of O or NR^{15} wherein R^{15} is the same as defined above and which be substituted,

more preferably, R^1 is hydrogen, hydroxy, halogen, lower alkoxy(lower)alkoxy, aryl(lower)alkox loxy, lower alkylsulfonyloxy, amino, lower alkylamino or lower alkenylamino (hereinafter referred 3"), or R^1 and R^2 or R^4 taken together form a 5- or 6-membered ring which contains one or mo wherein R^{15} is the same as defined above and which may optionally be substituted,

most preferably, R^1 is hydrogen, hydroxy, chlorine, fluorine, methoxymethyloxy, benzyloxy, 3-n loxy, methanesulfonyloxy, amino, dimethylamino or 3-methyl-2-butenylamino (hereinafter refe R1-4"), or R^1 and R^2 or R^4 taken together form -OCH_2O- or -CH=CH-NH-,

4) a compound wherein R^2 is hydrogen, hydroxy, halogen, lower alkyl or optionally substituted lo loxy (hereinafter referred to as "R^2 is R2-1") or R^1 and R^2 taken together form a 5- or 6-membered. tains one or more of O or NR^{15} wherein R^{15} is the same as defined above and which may optionall preferably R^2 is hydrogen, halogen or alkyl having 1 to 3 carbon atoms (hereinafter referred to as
5) a compound wherein R^3 is hydrogen, hydroxy, halogen or optionally substituted lower alk referred to as "R^3 is R3-1"), preferably R^3 is hydrogen or halogen (hereinafter referred to as "R^3 preferably R^3 is hydrogen or fluorine (hereinafter referred to as "R^3 is R3-3"),
6) a compound wherein R^4 is hydrogen, optionally substituted lower alkyl, halogen, optionally s alkoxy, nitro or optionally substituted amino (hereinafter referred to as "R^4 is R4-1") or R^4 and R may form a 5-or 6-membered ring which contains one or more of O or NR^{15} wherein R^{15} is the s above and which may optionally be substituted,

preferably R^4 is hydrogen, lower alkyl, lower alkoxy or halogen (hereinafter referred to as "R and R^1 taken together may form -OCH_2O-,

7) a compound wherein R^5 is hydrogen, optionally substituted lower alkoxy, lower alkoxycarbonyl inafter referred to as "R^5 is R5-1"), preferably R^5 is hydrogen, lower alkoxycarbonyl or carboxy (he to as "R^5 is R5-2"), more preferably R^5 is hydrogen (hereinafter referred to as "R^5 is R5-3"),
8) a compound wherein R^6 is hydrogen, halogen, optionally substituted lower alkyl, carboxy, lowe nitro, formyl, amino or lower alkylsulfonyloxy (hereinafter referred to as "R^6 is R6-1"),

preferably R^6 is hydrogen or lower alkyl or halogen (hereinafter referred to as "R^6 is R6-2"), more preferably R^6 is hydrogen, alkyl having 1 to 3 carbon atoms or halogen (hereinafter ref R6-3"),

9) a compound wherein R^7 is hydrogen, halogen, optionally substituted lower alkyl, optionally alkoxy, formyl or optionally substituted amino (hereinafter referred to as "R^7 is R7-1"),

preferably R^7 is hydrogen, lower alkyl or lower alkoxy (hereinafter referred to as "R^7 is R7-2"

10) a compound wherein R^8 is hydrogen, halogen, optionally substituted lower alkyl, optionally alkoxy, formyl or optionally substituted amino (hereinafter referred to as "R^8 is R8-1") or R^8 and

or 6- membered ring which contains one o

R^8 is hydrogen, lower alkyl or lower alkox

nd wherein R^9 is hydrogen, hydroxy, carbo
ptionally substituted lower alkenyl, optiona
onyloxy, formyl, optionally substituted carb
9-1") or R^9 and R^8 taken together may forr
nay optionally be substituted,

R^9 is hydrogen, hydroxy, carboxy, optio
tionally substituted lower alkenyl, optionall
ylsulfonyloxy, formyl, optionally substituted
as "R^9 is R9-2"),
erably R^9 is hydrogen, hydroxy, lower alkyl,
oxy(lower)alkoxy, lower alkylsulfonyloxy, di
reinafter referred to as "R^9 is R9-3"),
ferably R^9 is hydrogen, hydroxy, methyl,
sulfonyl, dimethylcarbamoyl, carboxy, metho

nd wherein R^{10} is hydrogen or lower alkoxy
ereinafter referred to as "R^{10} is R10-2"),
nd wherein R^{11} is hydrogen, halogen, optio
substituted lower alkylsulfonyloxy, formyl, n
taken together form a 5- or 6-membered ri
s defined above and which may optionally b

R^{11} is hydrogen or halogen (hereinafter re

nd wherein R^{12} is hydrogen,
nd wherein R^{13} is hydrogen, hydroxy, halog
wer alkoxy, optionally substituted lower alk
kylsulfonyloxy, formyl, nitro or optionally sub
-Y taken together form a 5- or 6-membered
ne as defined above and which may optionall

y R^{13} is hydrogen, hydroxy, halogen, carboxy
oxy, optionally substituted acyloxy, optionall
d amino (hereinafter referred to as "R^{13} is R
ferably R^{13} is hydroxy; halogen; lower alky
tionally substituted with lower alkorycarbony
gen; aroyloxyl; lower alkylsulfonyloxy; formyl
ferably R^{13} is hydroxy, fluorine, methyl, hyd
rbonylmethyloxy, methoxymethyloxy, chloro
yloxy, dichloropropenyloxy, ethoxycarbonyl, b
rred to as "R^{13} is R13-4"),

nd wherein X is -O-, $-NR^{14}-$ or -S(O)p- wher
R^{13} and Y taken together may form a 5-or 6-
is the same as defined above and may optio

y X is -O-, -NH-, -NMe- or $-SO_2-$ (hereinafter
(hereinafter referred to as "X is X3") most pr

nd wherein Y is optionally substituted lower a

R8-2, R^9 is R9-1, R^{10} is R10-1, R^{11} is R11-1, R^{12} is hydrogen, R^{13} is R13-2, X is X1 and Y is Y2, and R^1 and R^4, R^8 and R^9, or R^{13} and - X-Y taken together may form a 5- or 6-membered ring which con more of O or NR^{15} wherein R^{15} is the same as defined above and which may optionally be substitutec

27) a compound wherein R^1 is R1-1, R^2 is R2-1, R^3 is R3-1, R^4 is R4-1, R^5 is R5-1, R^6 is R6-2, R^7 is R8-2, R^9 is R9-2, R^{10} is R10-1, R^{11} is R11-1, R^{12} is hydrogen, R^{13} is R13-2, X is X1 and Y is Y2, anc R^1 and R^4, R^8 and R^9, or R^{13} and - X-Y taken together may form a 5- or 6-membered ring which con more of O or NR^{15} wherein R^{15} is the same as defined above and which may optionally be substitutec

28) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 is R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-2, X is X2 and Y is Y2, anc or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,

29) a compound therein R^1 is R1-3, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^3 is R5-2, R^6 is R6-2, R^7 is R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, and R^1 and R^4, or R^8 and R^9 taken together may form a 5 bered ring which contains one or more of O,

30) a compound wherein R^1 is R1-4, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 is R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-2, X is X2 and Y is Y2, an or R^8 and R^9 taken together may form $-OCH_2O-$,

31) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 i R8-2, R^9 is R9-3, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-2, X is X2 and Y is Y2, an or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,

32) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 i R8-2, R^9 is R9-4, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-2, X is X2 and Y is Y2, an or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,

33) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 i R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-3, X is X2 and Y is Y2, an or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,

34) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 i R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-4, X is X2 and Y is Y2, ar or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,

35) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-2, X is X2 and Y is Y3, ar or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,

36) a compound wherein R^1 is R1-3, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 R8-2, R^9 is R9-3, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-2, X is X2 and Y is Y2, ar or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,

37) a compound wherein R^1 is R1-3, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-3, X is X2 and Y is Y2, ar or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,

38) a compound wherein R^1 is R1-3, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-2, X is X2 and Y is Y3, a or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,

39) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 R8-2, R^9 is R9-3, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-3, X is X2 and Y is Y2, a or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,

40) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-3, R^7 R8-2, R^9 is R9-3, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-2, X is X2 and Y is Y3, a or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,

41) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-3, X is X2 and Y is Y3, a or R^8 and R^9 taken together may form a 5- or 6-membered ring which contains one or more of O,

42) a compound wherein R^1 is R1-3, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R^7 R8-2, R^9 is R9-3, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-3, X is X2 and Y is Y2, a or R^8 and R^9 taken together may form $-OCH_2O-$,

43) a compound wherein R^1 is R1-3, R^2 is R2-2, R^3 is R3-2, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R R8-2, R^9 is R9-3, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-2, X is X2 and Y is Y3, a or R^8 and R^9 taken together may form $-OCH_2O-$,

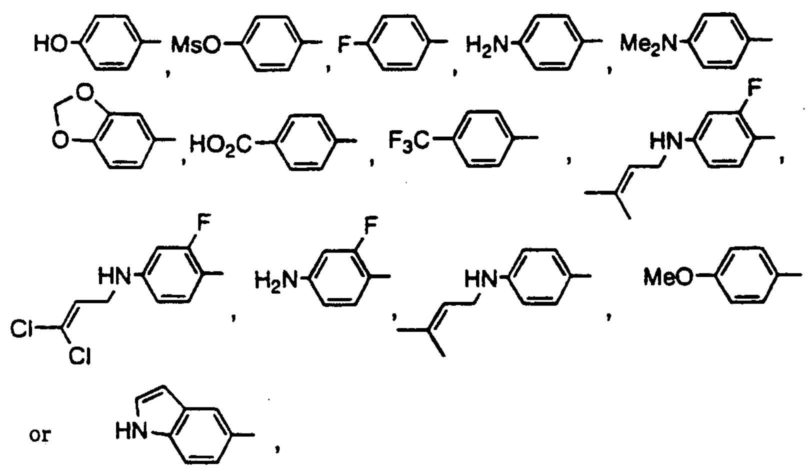
44) a compound wherein R^1 is R1-3, R^2 is R2-2, R^3 is R3-3, R^4 is R4-2, R^5 is R5-2, R^6 is R6-2, R R8-2, R^9 is R9-2, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-3, X is X2 and Y is Y3, a or R^8 and R^9 taken together may form $-OCH_2O-$,

45) a compound wherein R^1 is R1-2, R^2 is R2-2, R^3 is R3-3, R^4 is R4-2, R^5 is R5-3, R^6 is R6-2, R^7 is R7-2, R^8 is R8-2, R^9 is R9-3, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-3, X is X2 and Y is Y3, and R^1 and R^4, or R^8 and R^9 taken together may form a 5- or 6-membered ring which contain one or more of O,

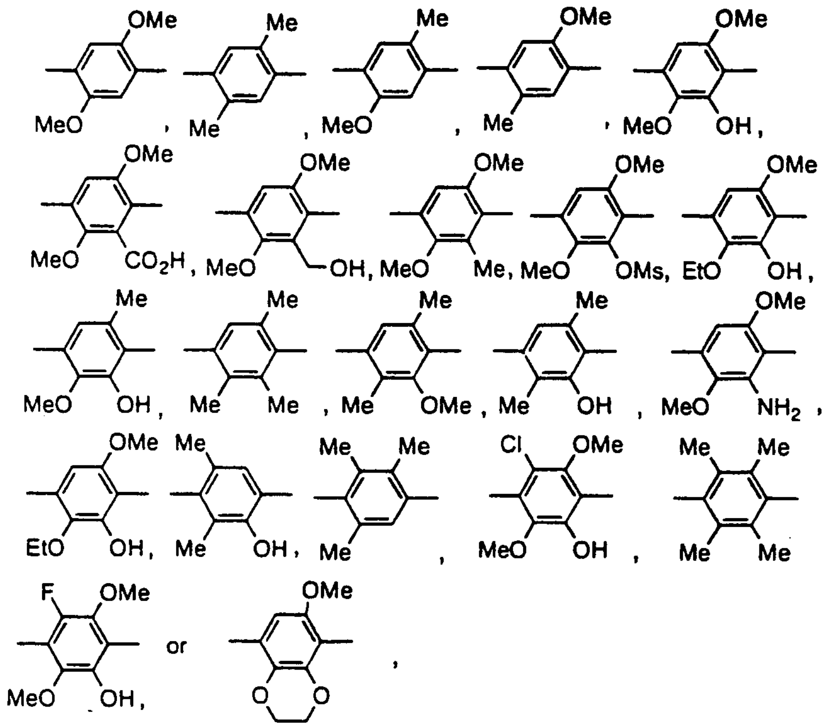
46) a compound wherein R^1 is R1-3, R^2 is R2-2, R^3 is R3-3, R^4 is R4-2, R^5 is R5-3, R^6 is R6-3, R^7 is R7-2, R^8 is R8-2, R^9 is R9-3, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-3, X is X3 and Y is Y4, and R^1 and R^4, or R^8 and R^9 taken together may form $-OCH_2O-$,

47) a compound wherein R^1 is R1-4, R^2 is R2-2, R^3 is R3-3, R^4 is R4-2, R^5 is R5-3, R^6 is R6-3, R^7 is R7-2, R^8 is R8-2, R^9 is R9-4, R^{10} is R10-2, R^{11} is R11-2, R^{12} is hydrogen, R^{13} is R13-4, X is X3 and Y is Y4, R^1 and R^4 taken together may form $-OCH_2O-$ and R^8 and R^9 taken together may form $-OCH_2CH_2O-$,

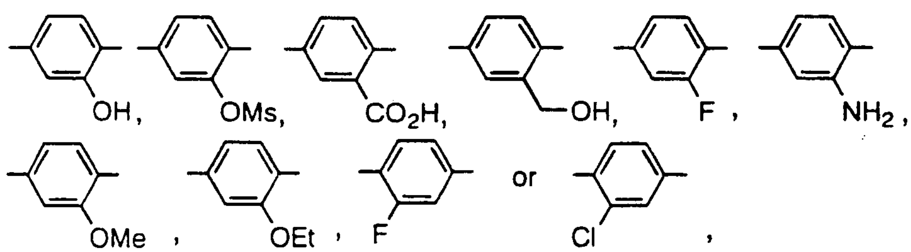
48) a compound wherein the benzene ring which is substituted with R^1 - R^5 is



49) a compound wherein the benzene ring which is substituted with R^6-R^9 is



50) a compound wherein the benzene ring which is substituted with R^{10}-R^{13} is

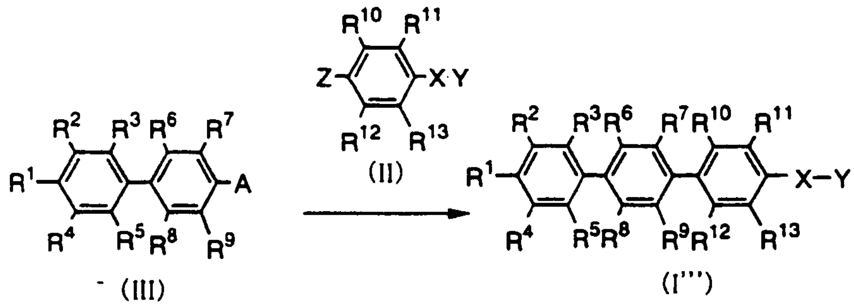


51) a compound wherein Y is $-CH_2CH{=}CMe_2$, $-(CH_2)_2CH{=}CMe_2$, $-CH_2CH{=}CCl_2$, $-CH_2CH{=}CBr_2$, $-CH_2CH{=}CF_2$, $-CH_2CH{=}CHMe$, $-CH_2CH{=}C(Me)CH_2OH$, $-CH_2C{\equiv}CMe$, $-CH_2C_6H_4$-4-Me, $-CH_2C_6H_5$, $-CH_2CH_2CHMe_2$ or -Me,
52) a compound wherein -X-Y is $-OCH_2CH{=}CMe_2$, $-O(CH_2)_2CH{=}CMe_2$, $-OCH_2CH{=}CCl_2$, $-OCH_2CH{=}CBr_2$, $-OCH_2CH{=}CF_2$, $-OCH_2C{\equiv}CMe$, $-OCH_2C_6H_4$-4-Me, $-OCH_2C_6H_5$, $-NHCH_2CH{=}CMe_2$, $-N(Me)CH_2CH{=}CMe_2$, $-NHCH_2CH_2CHMe_2$, $-NHCH_2C{\equiv}CH$, or $-NMe_2$, or
53) a compound wherein at least seven of the substituents of R^1 - R^{13} are hydrogen, preferably at least eight are hydrogen, more preferably at least nine are hydrogen, and their pharmaceutically acceptable salts, their hydrates and their prodrugs.

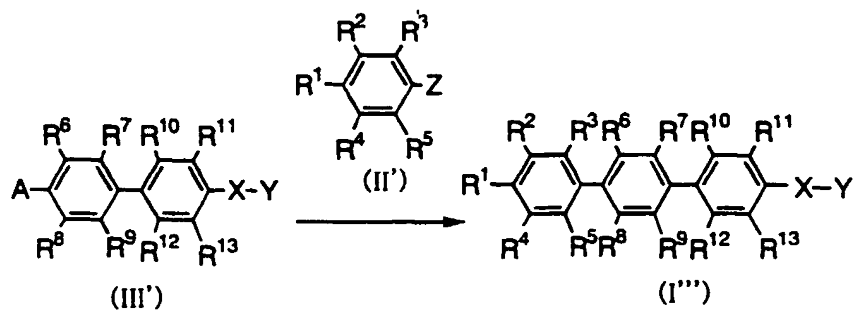
[0049] A process for producing the compound (I''') is as follows.

Process for producing the compound (I''') [Process a]

[0050] The compound (I''') can be produced by the reaction of a borane compound of the formula (II) and (II') coupled with a biphenyl derivative of the formula (III) and (III') respectively, as shown below.



wherein R^1 - R^{13}, X and Y are the same as defined in the above formula (I'''), and A and Z are the same as defined in the above formulas (II) and (III), or



wherein R^1 - R^{13}, X and Y are the same as defined in the above formula (I'''), and A and Z are the same as defined in the above formulas (II) and (III).

[0051] The compounds (II) and (II') are reacted with the compounds (III) and (III') respectively in a mixture system of an appropriate solvent such as benzene, toluene, dimethylformamide, dimethoxyethane, tetrahydrofuran, dioxane, ethanol, methanol or the like and water or in an anhydrous system in the presence of a palladium catalyst such as $Pd(PPh_3)_4$, $PdCl_2(PPh_3)_2$, $PdCl_2(OAc)_2$, $PdCl_2(CH_3CN)_2$ or the like, preferably $Pd(PPh_3)_4$, under a basic condition (for example, by K_3PO_4, $NaHCO_3$, NaOEt, Na_2CO_3, Et_4NCl, $Ba(OH)_2$, Cs_2CO_3, CsF, NaOH, Ag_2CO_3 or the like) at room temperature or with heating for several tens minutes to several tens hours to obtain the compound (I''').

[0052] One of substituents A and Z of the compounds to be reacted may be any of the borane groups which are applicable in the Suzuki Reaction (Chemical Communication 1979, 866, Journal of Synthetic Organic Chemistry, Japan, 1993, Vol.51, No.11, 91-100) and dihydroxyborane is preferable. The other may be any of the leaving groups which are applicable in the Suzuki Reaction, for example, halogen, $-OSO_2(C_qF_{2q+1})$ wherein q is an integer of 0 to 4, or the like. Specifically, halogen, trifluoromethanesulfonyloxy (hereinafter referred to as OTf) or the like is preferable and bromine, iodine or OTf is more preferable.

[0053] The substituents R^1 - R^{13} and -X-Y of the compounds (II), (III), (II') and (III') may be any of the groups which do not affect the Suzuki Reaction, for example, any groups other than halogen and $-OSO_2(C_qF_{2q+1})$ wherein q is an integer of 0 to 4.

[0054] For example, Y may be optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted acyl, optionally substituted cycloalkyl, optionally substituted cycloalkenyl, optionally substituted aryl or optionally substituted heterocyclyl, Y may be optionally substituted lower alkoxy when X is $-CH_2-$ and Y may be optionally substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyl or optionally substituted arylsulfonyl when X is -O- or $-NR^{14}-$. Even if R^1 - R^{13} or Y is halogen, these reactions can be carried out without difficulty when the reactivity of the substituent A with the substituent Z is higher than that of halogen with either of substituents A and Z.

[0055] Even if one of R^1 -R^{13} and -X-Y is hydroxy, the above reactions can be carried out preferably after the protection of hydroxy group with a usual hydroxy-protecting group (for example, metoxymethyl, benzyl, tert-butyldimethylsilyl, methansulfonyl, p-toluenesulfonyl or the like), followed by the removal of them by usual methods.

[0056] As processes for producing the compound (I'''), the above mentioned Suzuki Reaction is most preferable in view of the efficiency and easiness but silicon, zinc, tin or the like can be used in place of the borane group in the above

scheme.

[0057] For example, in the case that one of A and Z is $-SiR^{17}_{3-r}(Hal)_r$ wherein R^{17} is independently lower alkyl, Hal is halogen and r is an integer of 1 to 3 and the other is halogen or $-OSO_2(C_qF_{2q+1})$ wherein q is an integer of 0 to 4, the coupling reaction may be carried out using a usual palladium catalyst (Synlett (1991) 845-853, J. Org. Chem. 1996, 61, 7232-7233). Examples of preferable palladium catalysts are $(i\text{-}Pr_3P)_2PdCl_2$, $[(dcpe)PdCl_2]$ ($dcpe=Cy_2PCH_2CH_2PCy_2$), $(\eta^3\text{-}C_3H_5PdCl)_2$ and the like.

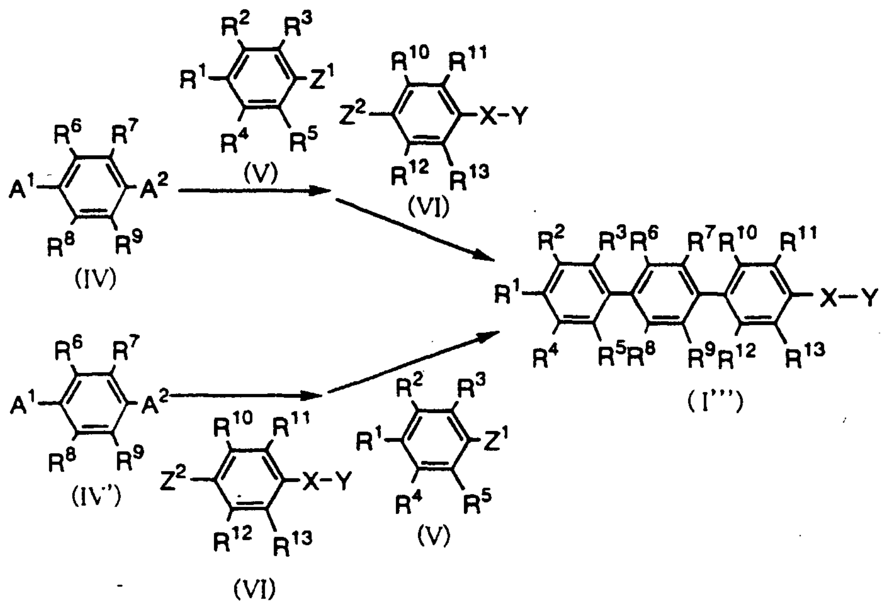
[0058] Even in the case that one of A and Z is $-SnR^{18}_3$ wherein R^{18} is each independently lower alkyl and the other is halogen, acetyloxy or $-OSO_2(C_qF_{2q+1})$ wherein q is an integer of 0 to 4, an objective compound can be obtained using a usual palladium catalyst (preferably $Pd(PPh_3)_4$ or the like) (Angew. Chem. Int. Ed. Engl. 25 (1986) 508-524).

[0059] In the case that one of A and Z is -Zn(Hal) wherein Hal is halogen and the other is halogen, an objective compound can be obtained (Acc. Chem. Res. 1982, 15, 340-348). Any usual palladium catalyst is applicable and $Pd(PPh_3)_4$, $PdCl_2(dppf)$, $PdCl_2(PPh_3)_2$, $PdCl_2(P(o\text{-}Tolyl)_3)_2$, $Pd(OAc)_2$ and the like are exemplified as preferable examples.

[0060] All of these reactions may be carried out in a suitable solvent (for example, dimethylformamide, tetrahydrofuran or the like) at room temperature or with heating for several tens minutes to several tens hours.

Process for producing the compound (I''') [Process b]

[0061] As another easier processes for producing the compound (I'''), the following process wherein the compound of the formulas (IV), (V) and (VI) are coupled is also applicable.



wherein R^1 - R^{13}, X and Y are the same as defined in the above formulas (I), (II) and (III) and A^1, A^2, Z^1 and Z^2 are the same as defined in the above A and Z, respectively. The reactivity of A^1 is higher than or equal to that of A^2 in the compound (IV) and the reactivity of A^2 is higher than or equal to that of A^1 in the compound (IV').

[0062] For production of the compound (I''') by the above process the compound (IV) may be reacted with the compound (V), followed by the reaction with the compound (VI) without an isolation. The objective compound can be obtained also by a process wherein the compound (IV') is reacted with the compound (VI), followed by a reaction with the compound (V).

[0063] Because the reactions of the substituents A^1 and Z^1 and the substituents A^2 and Z^2 are necessary to obtain the objective compound, the reactivity of the substituent A^1 and that of A^2 should be different. A preferable example is the combination that A^1 is iodine and A^2 is bromine or -OTf in the compound (IV). Conversely in the compound (IV') iodine for A^2 and bromine or -OTf for A^1 are preferable. In the case that the compound (IV) or (IV') is a symmetry compound, the objective compound is obtained even if A^1 and A^2 are the same group.

[0064] The substituents Z^1 and Z^2 may be the same or different group.

[0065] Various other conditions in this process are the same as those in the "Process a".

[0066] In the above compounds, the substituents R^1 - R^{13} may be any of the groups which do not affect the reaction (for example, a group other than halogen and - $OSO_2(C_qF_{2q+1})$ wherein q is an integer of 0 to 4) or any of the groups which do not affect the reaction and are changeable to R^1 - R^{13} by a usual reaction. In the latter case the substituents may be changed to R^1 - R^{13} in suitable steps according to the reaction of each compound.

[0067] For example, in the case that a substituent is formyl and an objective substituent is hydroxy, after the substituent is changed to formyloxy by the Baeyer-Villiger reaction etc., a usual hydrolysis reaction may be carried out under an acidic or alkaline condition. Specifically, a compound which has formyl is reacted with a peroxy acid such as peracetic acid, perbenzoic acid, m-chloroperbenzoic acid, trifluoroperacetic acid, hydrogen peroxide or the like in a suitable solvent such as 1,2-dichloroethane, chloroform, dichloromethane, carbon tetrachloride, benzene or the like at - 20 °C or with heating for several minutes to several tens hours, followed by the hydrolysis of the obtained compound which has formyloxy under an acidic condition (for example, with heating with hydrochloric acid) or under a basic condition (for example, with heating with sodium hydroxide).

[0068] In the case that a substituent is formyl and an objective substituent is hydrorymethyl, the compound which has formyl may be reacted with a reductant such as sodium borohydride, lithium borohydride, zinc borohydride, triethyllithium borohydride, alminium hydride, diisobutylalminium hydride or the like in a solvent (for example, methanol, ethanol, isopropanol, dimethylsulfoxide, diethylene glycol dimethoxyethane, tetrahydrofuran, benzene, toluene, cyclohexane or the like) which is suitable for the reductant at -20 °C to 80 °C, preferably under ice-cooling or at room temperature, for several tens minutes to several hours.

[0069] In the case that a substituent is formyl and an objective substituent is alkenyl having additional carbon atoms, an objective compound can be obtained by the Wittig Reaction (Organic Reaction, 1965, vol.14, p. 270).

[0070] In the case that a substituent is formyl and an objective substituent is carboxy, the compound which has formyl may be reacted with an oxidizing agent such as sodium chlorite, the Jones Reagent, chromic anhydride or the like in a solvent such as tert-butanol, acetone or the like which is suitable for the oxidizing agent at 0 °C or with heating for several hours. The reaction is preferably carried out by addition of 2-methyl-2-buten, sodium dihydrogenphosphate or the like if needed.

[0071] In the case that a substituent is hydroxy and an objective substituent is substituted lower alkoxy, the compound which has hydroxy may be reacted with a proper alkylating agent in the presence of a base such as sodium carbonate, sodium bicarbonate, potassium carbonate, calcium hydroxide, barium hydroxide, calcium carbonate or the like in a suitable solvent such as tetrahydrofuran, acetone, dimethylformamide, acetonitrile or the like. Specifically, the reaction of a compound which has hydroxy with a proper halogenated compound such as methyl iodoacetate, ethyl chloroacetate, propyl chloroacetate or the like can give a compound of which substituent is alkoxycarbonyl(lower)alkoxy.

[0072] In the case that a substituent is carboxy and an objective substituent is carbamoyl, the compound which has carboxy may be carbamoylated with an amine such as ammonia, dimethylamine or the like at 0 °C or with heating for several minutes to several hours in a suitable solvent such as tetrahydrofuran, dimethylformamide, diethyl ether, dichloromethane or the like, if necessary after activation by an activating agent such as thionyl chloride, an acid halide, an acid anhydride, an activated ester or the like.

[0073] In the case that a substituent is hydrogen and an objective substituent is halogen, the compound which has hydrogen may be halogenated by a halogenating agent which is generally used (for example, bromine, chlorine, iodine, sulfuryl chloride, N-bromosuccinimide, N-iodosuccinimide or the like) in a suitable solvent such as chloroform, dichloromethane, carbon tetrachloride, acetonitrile, nitromethane, acetic acid, acetic anhydride or the like, if necessary in the presence of a catalyst such as the Lewis acid, hydrochloric acid, phosphoric acid or the like at -20 °C or with heating for several minutes to several tens hours.

[0074] The compound (I) can be obtained by a reaction of the compound (II) which has a substituent -X-Y with the compound (III) or a reaction of the compound (III') which has a substituent -X-Y with the compound (II'). Further, the compound (I) can also be obtained by a reaction of the compound (II) or (III') which has a substituent - W which is convertible into a substituent -X-Y with the compound (III) or (II'), followed by a conversion of a substituent -W into a substituent -X-Y.

[0075] For example, in the case of a compound wherein -W is hydroxy or protected hydroxy, an objective substituent such as lower alkyl, lower alkenyl, lower alkynyl, acyl, cycloalkyl, cycloalkenyl, aryl, heterocyclyl, lower alkoxy or the like may be introduced by a usual reaction.

[0076] Concretely, to obtain a compound wherein X is -O-, a compound wherein - W is hydroxy is synthesized and dissolved in a suitable solvent (for example, dimethylformamide, tetrahydrofuran, acetone, benzene, dioxane, acetonitrile or the like), followed by addition of a base such as hydroxides or carbonates of alkaline metals or alkaline-earth metals (for example, sodium carbonate, sodium bicarbonate, potassium carbonate, calcium hydroxide, barium hydroxide, calcium carbonate and the like) or tertiary amines such as triethylamine and the like. To the reactant is added a compound Y-V wherein V is halogen or $-OSO_2(C_qF_{2q+1})$ wherein q is an integer of 0-4 (for example, prenyl bromide, cyclohexenyl bromide, cinnamyl bromide, 1-bromo-2-penten, geranyl bromide, 5-bromo-2-methyl-2-penten, 1,3-dichloro-2-buten, 3-chloropropyne, prenyl triflate, cyclohexenyl triflate, 1,3-trichloropropene or the like) at - 20 °C or with

heating for several minutes to several tens hours to obtain an objective compound wherein -W has been converted into -O-Y.

[0077] To obtain a compound wherein X is $-CH_2-$, -N R^{14}- or -S-, a compound wherein - W is hydroxy is reacted with trifluoromethanesulfonic anhydride etc. in a solvent such as anhydrous dichloromethane, chloroform, carbon tetrachloride or the like in the presence of a base such as pyridine, triethylamine or the like to obtain a triflate. Then, the obtained compound is reacted with Y-V' wherein V' is $-CH_2ZnI$, -SH, $-NHR^{14}$ in the presence of a catalyst such as palladium, nickel or the like in a suitable solvent such as tetrahydrofuran, dimethylformamide, diethyl ether, dimethoxyethane or the like to give an objective compound.

[0078] In the case that X is NR^{14}, a compound wherein W is NH_2 may be reacted with a ketone or an aldehyde in a suitable solvent such as tetrahydrofuran, methanol or the like, followed by reduction with a suitable reductant such as sodium borohydride, sodium cyanoborohydride, zinc hydrochloride or the like or by catalytic reduction to obtain an objective compound.

[0079] A usual reaction of a compound wherein W is NH_2 with Y-V" wherein Y is acyl, lower alkylsulfonyl optionally substituted or arylsulfonyl optionally substituted and V" is a leaving group such as halogen gives a compound wherein -X-Y is -NH-Y.

[0080] To obtain a compound wherein X is -SO- or $-SO_2-$, a compound wherein X is - S- which is synthesized by the above mentioned process may be oxidized with a usual oxidizing agent such as m-chloroperbenzoic acid.

[0081] A compound of the present invention wherein -X-Y is lower alkenyloxy is dissolved in a solvent such as ethanol, ethyl acetate or the like and hydrogenated with a catalyst such as Pd-carbon powder, platinum, rhodium, ruthenium, nickel or the like to give a compound wherein -X-Y is lower alkoxy.

[0082] A reaction of a compound wherein -X-Y is lower alkenyloxy with m-chloroperbenzoic acid or the like in a solvent such as dichloromethane, chloroform, benzene, hexane, tert-butanol or the like gives a compound wherein -X-Y is epoxidated lower alkoxy.

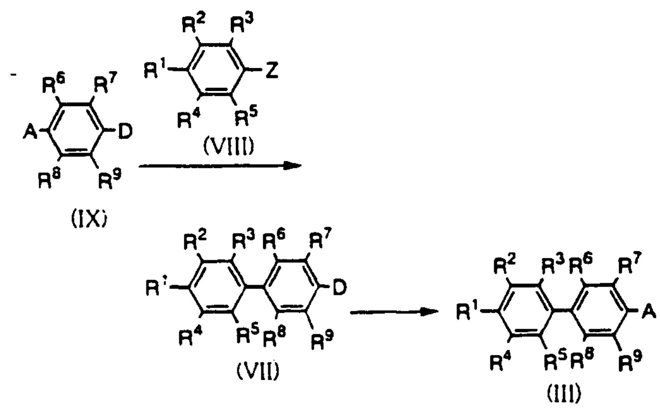
[0083] In the case that a compound has a substituent interfering of a reaction, the substituent may be protected with a suitable protecting group in advance and the protecting group may be left in a suitable step by a usual method. For example, if hydroxy interferes the reaction, hydroxy may be protected with methoxymethyl, methanesulfonyl, benzyl, trifluoromethanesulfonyl, tert-butyldimethylsilyl or the like, followed by deprotection in a suitable step.

[0084] For example for a protection of hydroxy with methanesulfonyl, a compound which has hydroxy may be reacted with methanesulfonyl chloride in a solvent such as dichloromethane, chloroform, carbon tetrachloride or the like in the presence of a base such as triethylamine, pyridine or the like under ice-cooling or at room temperature for several hours. The protected compound may be deprotected with 1-4 N sodium hydroxide, potassium hydroxide, aqueous solution thereof sodium methoxide, ethyl magnesium bromide or the like in a solvent such as dimethysulfoxide, dimethylformamide, tetrahydrofuran, dioxane, dimethoxyethane or the like at room temperature or with heating for several tens minutes to several hours.

[0085] When methoxymethyl is used as a protecting group of hydroxy, a compound which has hydroxy may be reacted with chloromethylmethylether in a solvent such as tetrahydrofuran, dioxane, dimethoxyethane or the like in the presence of sodium hydride, diisopropylethylamine or the like to obtain a compound which has a protected hydroxy group. The compound may be subjected to a usual deprotection reaction with hydrochloric acid, sulfuric acid or the like in a solvent such as methanol, tetrahydrofuran, acetic acid or the like for a deprotection.

[0086] When tert-butyldimethylsilyl is used as a protective group, a compound which has hydroxy may be reacted with tert-butyldimethylsilyl chloride, tert-butyldimethylsilyl triflate or the like in a solvent such as dimethylformamide, acetonitrile, tetrahydrofuran, dimethylformamide, dichloromethane or the like in the presence of imidazole, triethylamine, 2, 6-lutidine or the like. For a deprotection reaction the protected compound may be reacted with tetrabutylammonium fluoride or the like in a solvent such as tetrahydrofuran or the like.

[0087] Both of known compounds and the compounds which are produced by the following process may be used as the compounds (III) and (III') in the above scheme.



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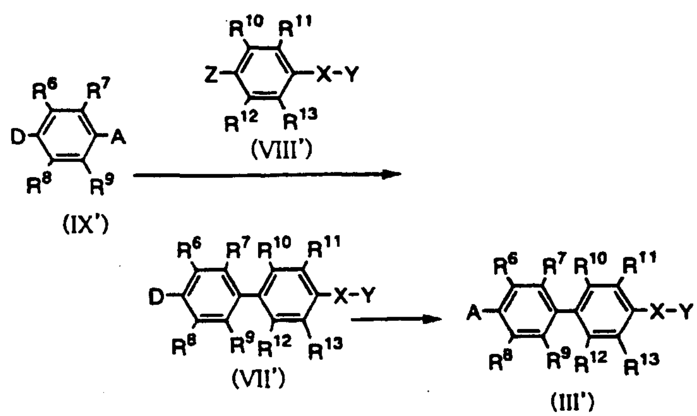


[0088] Known compounds (VIII) and (IX), or (VIII') and (IX') wherein A and Z are groups which can be subjected to a coupling reaction by the Suzuki Reaction with each other; for example, one is borane such as dihydroxyborane, di(lower)alkoxyborane or the like and the other is halogen or -$OSO_2(C_qF_{2q+1})$ wherein q is an integer of 0-4; D is a group other than halogen and -$OSO_2(C_qF_{2q+1})$ wherein q is the same as defined above are reacted by the same method as above to obtain a compound (VII) or (VII').

[0089] As described above, instead of a compound which has borane, a compound which has -$SiR^{17}{}_{3-r}(Hal)_r$ wherein R^{17} is each independently lower alkyl Hal is halogen and r is an integer of 1-3, -$SnR^{18}{}_3$ wherein R^{18} is each independently lower alkyl or - Zn(Hal) wherein Hal is halogen may be used for a reaction to obtain an objective compound.

[0090] Then, a substituent D is converted into a substituent A which is applicable to the Suzuki Reaction.

[0091] For example, a compound wherein D is hydrogen may be reacted with a halogenating agent such as bromine, chlorine, iodine, sulfuryl chloride, N-bromosuccinimide or the like in a suitable solvent such as acetic acid, chloroform, dichloromethane, carbon tetrachloride, water, acetic acid-sodium acetate or the like at - 20 °C or with heating for several minutes to several tens hours to give an objective compound wherein A is halogen.

[0092] A compound wherein D is protected hydroxy may be reacted with a trifluoromethanesulfonating agent such as trifluoromethanesulfonic anhydride, trifluoromethansulfonyl chloride or the like in a suitable solvent such as dichloromethane, chloroform, tetrahydrofuran or benzene in the presence of a base such as pyridine or triethylamine at -20 °C or with heating for several minutes to several tens hours to give an objective compound wherein A is OTf.

[0093] A compound of the present invention thus obtained can be converted into prodrug thereof. Any usual methods for conversion into a prodrug may be used. For example, hydroxy or amino which is attached a compound of the present invention at any position may be substituted with a usual group for a prodrug. An example of conversion into a prodrug

is a substitution of hydroxy with acyloxy substituted with carboxy, sulfo, amino, lower alkylamino or the like, phosphonoxy etc. A substitution of hydroxy for R^1 with $-OCOCH_2CH_2COOH$, $-OCOCH=CHCOOH$, $-OCOCH_2SO_3H$, $-OPO_3H_2$, $-OCOCH_2NMe_2$, -OCO-Pyr wherein Pyr is pyridine or the like is preferable.

[0094] A selective suppressor of the IgE production of the present invention comprises a compound which suppresses the IgE production in a process from a differentiation of a mature B cell into an antibody-producing cell to the production of an antibody and which does not suppress or weakly suppresses the production of the immunoglobulins IgG, IgM and/or IgA which are produced at the same time.

[0095] The term "suppresses the IgE production in a process from a differentiation of a mature B cell into an antibody-producing cell to the production of an antibody" means to suppress the IgE production by inhibiting one of the following processes.

1) A process wherein mature B cells are activated by various factors such as cytokines, i.e.. IL-4, IL-5, etc., anti-CD40 antibody or the like,
2) A process wherein the activated B cells differentiate into antibody-producing cells such as plasma cells etc. (concretely, a process of switching of the activated B cells to IgE class antibody-producing cells) and/or
3) A process wherein the antibody-producing cells produce immunoglobulins (specifically, a process of the IgE production)

[0096] An inhibition of "a process wherein a mature B cell is activated by various factors" in the process 1) does not include an inhibition of a process wherein the factors are produced from other cells and the like.

[0097] The term "suppresses the IgE production and does not suppress or weakly suppresses the production of the immunoglobulins IgG, IgM and/or IgA which are produced at the same time" means that the IgE production is suppressed enough to suppress allergy reactions and that the IgG, IgM and/or IgA production is not suppressed so potent as to badly affect an immune system concerning a living body protection under the condition that IgE and one or more of IgG, IgM and IgA can be produced at the same time. In other words,

[** WARNING! MISSING DATA: <FLA>1<FLAC POS=MID>○</FLAC></FLA> **] The suppression of the IgE production is 5,000 times, preferably 10,000 times, more preferably 15,000 times, most preferably 20,000 times or more as potent as those of the IgG, IgM and/or IgA production and/or

[** WARNING! MISSING DATA: <FLA>2<FLAC POS=MID>○</FLAC></FLA> **] The IgG, IgM and/or IgA production is not suppressed to less than 50 % even at 5,000 times, preferably 10,000 times, more preferably 15,000 times, most preferably 20,000 times the concentration at which 50 % of the IgE production is suppressed as compared with that in the absence of the suppressor.

[0098] The term "the concentration at which 50 % of the IgE production is suppressed as compared with that in the absence of the suppressor" means a concentration at which the IgE production is limited to 50 % of the production in the absence or without administration of the selective suppressor of the IgE production of the present invention under the condition that the IgE can be produced. The suppressor is useful as a medicament when it has a selectivity for the IgE as compared with at least one of IgG, IgM or IgA, preferably with all of them.

[0099] The selective suppressor of the IgE production of the present invention suppresses 90 % or more of the IgE production as compared with that without administration of the suppressor at a dosage that the suppressor does not suppress or weakly suppresses the IgM, IgG and/or IgA production when the suppressor is administered to a mammal, which includes human, sensitized by an allergen. The term "allergen" means any substance that can induce the IgE production and an allergic reaction. Clinical examples are pollen, a acarid, house dust, albumin, milk, a soybean etc. and experimental examples are ovalbumin, bovine gamma globulin, bovine Serum albumin, an antigen protein of cedar pollen (Cryj I and Cryj II), an antigen protein for acarid (Derf I and Derf II) etc. The term "a dosage that the suppressor does not suppress or weakly suppresses the IgM, IgG and/or IgA production" means the dosage at which the suppression rate of the IgG, IgM and/or IgA is 10 % or less, preferably 5 % or less, more preferably 3 % or less as compared with those produced without administration of the selective suppressor of the IgE production of the present invention.

[0100] The selective suppressor of the IgE production of the present invention suppresses infiltration of an inflammatory cell to a tissue. The term "inflammatory cell" includes all of a lymphocyte, an eosinophil, a neutrophile and a macrophage, and an eosinophil and/or a neutrophile are preferable.

[0101] The effect of the selective suppressor on the IgE production of the present invention is potent for its direct action to B cells. Because the suppressor does not affect the humoral immunity concerning a biological protective reaction, it has many advantages, for example, little side effect such as infections etc.,

[0102] All of compounds that have the above effect are useful as an immunosuppressor regardless of the structure

and one of the examples is the compound (I) or (I") of the present invention.

[0103] The compounds of the present invention also include ones which have the suppressive effect on a mitogen reaction and/or a cytokine reaction.

[0104] Specifically, the compounds have a potent antiproliferative effect on T and/or B cells and/or a suppressive effect on the IL-5 and/or IL-4 production. They selectively suppress the IL-4 and/or IL-5 production and do not suppress the IL-2 production.

[0105] The immunosuppressor or anti-allergic agent of the present invention is useful for prevention or a treatment of allergic diseases such as a rejection symptom against a transplantation of an organ or a tissue, a graft-versus-host reaction which is caused by a bone marrow transplantation, atopic allergic diseases (for example, a bronchial asthma, an allergic rhinitis, an allergic dermatitis and the like), a hypereosinophils syndrome, an allergic conjunctivitis, a systemic lupus erythematosus, a polymyositis, a dermatomyositis, a scleriasis, MCTD, a chronic rheumatoid arthritis, an inflammatory bowel disease, an injury caused by ischemia-reperfusion, a pollenosis, an allergic rhinitis, an urticaria, a psoriasis and the like.

[0106] When the compound of the present invention is administered as a immunosuppressor and/or anti-allergic agent, it can safely be administered both orally and parenterally. In the case of an oral administration, it may be in any usual forms such as tablets, granules, powders, capsules, pills, solutions, suspensions, syrups, buccal tablets, sublingual tablets and the like for the administration. When the compound is parenterally administered, any usual forms are preferable, for example, injections such as intravenous injections and intramuscular injections, suppositories, endermic agents, vapors and the like. An oral administration is particularly preferable.

[0107] A pharmaceutical composition may be manufactured by mixing an effective amount of the compound of the present invention with various pharmaceutical ingredients suitable for the administration form, such as excipients, binders, moistening agents, disintegrators, lubricants, diluents and the like. When the composition is of an injection, an active ingredient can be sterilized with a suitable carrier to give a pharmaceutical composition.

[0108] Specifically, examples of the excipients include lactose, saccharose, glucose, starch, calcium carbonate, crystalline cellulose and the like, examples of the binders include methylcellulose, carboxymethylcellulose, hydroxypropylcellulose, gelatin, polyvinylpyrrolidone and the like, examples of the disintegrators include carboxymethylcellulose, sodium carboxymethylcellulose, starch, sodium alginate, agar, sodium lauryl sulfate and the like, and examples of the lubricants include talc, magnesium stearate, macrogol and the like. Cacao oil, macrogol, methyl cellulose and the like may be used as base materials of suppositories. When the composition is manufactured as solutions, emulsified injections or suspended injections, dissolving accelerators, suspending agents, emulsifiers, stabilizers, preservatives, isotonic agents and the like may be added. For an oral administration, sweetening agents, flavors and the like may be added.

[0109] Although a dosage of the compound of the present invention as an immunosuppressor and/or anti-allergic agent should be determined in consideration of the patient's age and body weight, the type and degree of diseases, the administration route or the like, a usual oral dosage for human adults is 0.05-100 mg/kg/day and the preferable dosage is 0.1 - 10 mg/kg/day. In the case that it is parenterally administered, although the dosage highly varies with administration routes, a usual dosage is 0.005 - 10 mg/kg/day, preferably, 0.01 - 1 mg/kg/day. The dosage may be administered in one or some separate administrations.

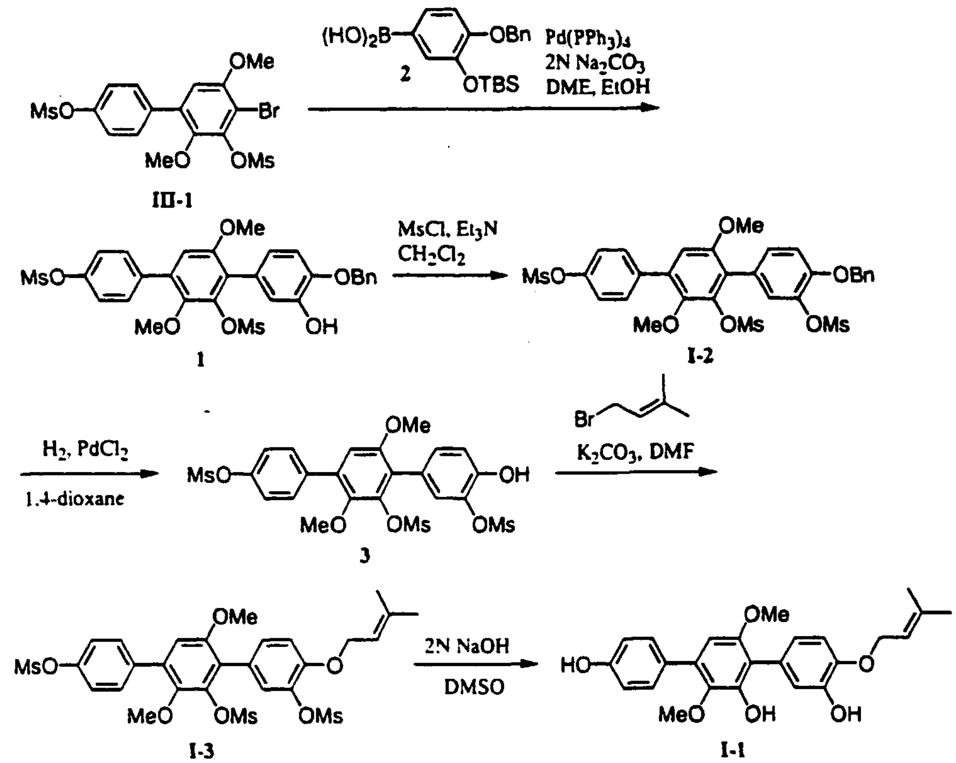
[0110] The present invention is further explained by the following Examples and Experiments, which are not intended to limit the scope of the present invention.

EXAMPLE

[0111] The abbreviations which are used in EXAMPLE mean the following.

Bn	benzyl
DME	1, 2-dimethoxyethane
DMF	N, N-dimethylformamide
DMSO	dimethylsulfoxide
MCPBA	m-chloroperbenzoic acid
MOM	methoxymethyl
Ms	methanesulfonyl
Py	pyridyl
TBS	tert-butyldimethylsilyl
Tf	trifluoromethanesulfonyl
Ts	p-toluenesulfonyl

Example 1 Synthesis of the comounds (I-1), (I-2) and (I-3)



(Step 1) Synthesis of the compound 1

[0113] To 300 ml of a solution of 10.63 g (22.08 mmol) of a compound (III-I) in 1, 2-dimethoxyethane was added 3.60 g (3.12 mmol) of tetrakis(triphenylphosphine)palladium (0) at room temperature. To the mixture were added 80 ml of a solution of a compound 2 (9.50 g; 26.5 mmol) in 99% ethanol and 125 ml (250 mmol) of an aqueous solution of 2 M sodium carbonate and the reacted suspension was heated under refluxing in an argon atmosphere for 6 hours. After cooling, the reaction mixture was filtered off to remove an insoluble material and the filtrate was acidified with 2 N hydrochloric acid and extracted with ethyl acetate. The extract was washed with 5 % aqueous solution of sodium bicarbonate and saturated brine successively, then dried and concentrated. After the residue was purified by silica gel chromatography (hexane-ethyl acetate 1:1), the obtained product was recrystallized from hexane-ethyl acetate to give the compound 1 (11.57 g; 87 % yield) as colorless crystals.

(Step 2) Synthesis of the compound (I-2)

[0114] To 60 ml of a suspension of the compound 1 (9.30 g; 15.48 mmol) in anhydrous dichloromethane was added 3.24 ml (23.22 mmol) of triethylamine, followed by addition of 1.80 ml (23.22 mmol) of methanesulfonyl chloride under ice-cooling and stirred for 2 hours at the same temperature. After the solvent was removed, the residue was acidified with 80 ml of 1 N hydrochloric acid and extracted with chloroform. The extract was washed with 1 N hydrochloric acid, 5 % aqueous solution of sodium bicarbonate and saturated brine successively, and the obtained product was dried and concentrated. The obtained residue was recrystallized from hexane-ethyl acetate to give 9.93 g of the compound (1-2) (95 % yield) as colorless crystals.

(Step 3) Synthesis of the compound 3

[0115] Stirred were 300 ml of a solution of 9.76 g (14.38 mmol) of the compound (1-2) and 765 mg (4.31 mmol) of palladium chloride (II) in 1, 4-dioxane under a hydrogen atmosphere at room temperature for 15 hours. An insoluble

material was removed off by filtration with celite and the obtained filtrate was concentrated. The residue was recrystallized from hexane-ethyl acetate to give the compound 3 (8.43 g; 100 % yield) as colorless crystals.

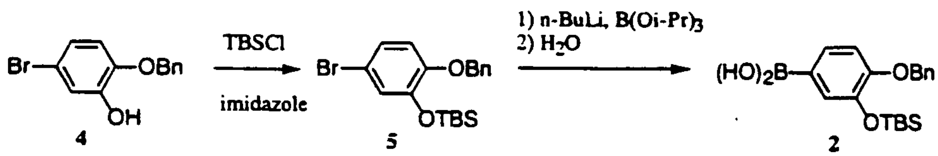
(Step 4) Synthesis of the compound (I-3)

[0116] To 40 ml of a solution of the compound 3 (4.01 g; 6.81 mmol) in anhydrous N, N-dimethylformamide were added successive, 1.45 g (10.5 mmol) of potassium carbonate and 1.21 ml (10.5 mmol) of prenyl bromide. After the mixture was stirred under a nitrogen atmosphere for 15 hours at room temperature, the reaction mixture was poured into 230 ml of 6 % aqueous citric acid and extracted with ethyl acetate. The extract was washed with 5 % citric acid, 5 % aqueous solution of sodium bicarbonate and saturated brine successively, followed by being dried and concentrated. The residue was recrystallized from hexane-ethyl acetate to give 4.01 g of the compound (I-3) (90% yield) as colorless crystals.

(Step 5) Synthesis of the compound (I-1)

[0117] To 38 ml of a solution of 3.80 g (5.79 mmol) of the compound (I-3) in dimethylsulfoxide was added 15 ml (60.0 mmol) of 4 N sodium hydroxide and the reaction mixture was warmed at 60 °C for 4 hours. After the mixture was cooled, 100 ml of 1 N hydrochloric acid was added to it and the obtained mixture was extracted with ethyl acetate. The extract was washed with 5 % aqueous solution of sodium bicarbonate and saturated brine successively, then dried and concentrated. The residue was recrystallized from methanol to give 1.72 g of the compound (I-1) (70 % yield) as colorless crystals.

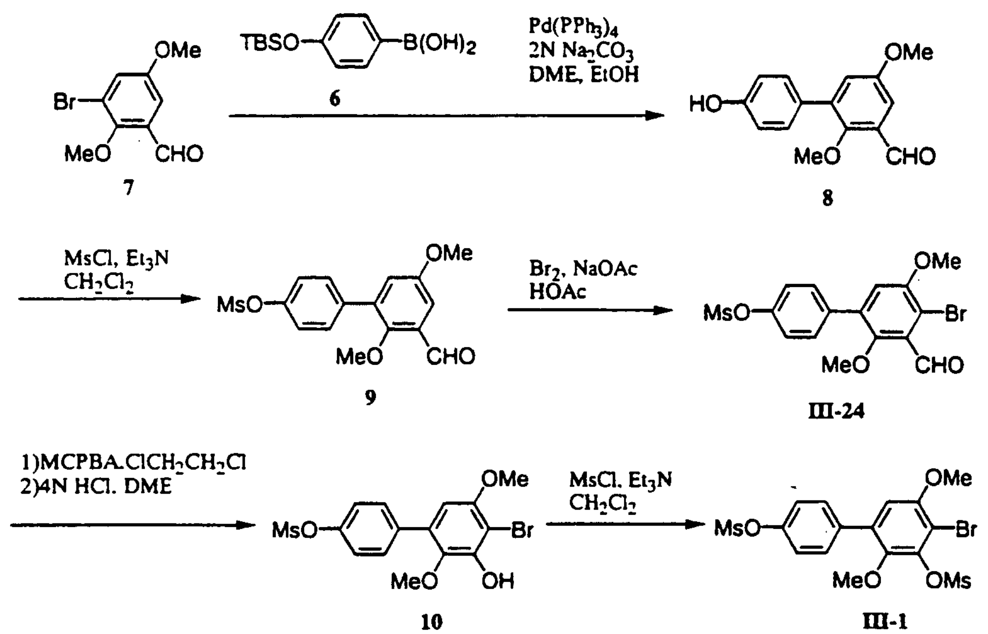
Reference Example 1 Synthesis of the compound 2



[0119] To a solution of the compound 4 (80.0 g; 0.287 mol) in 300 ml of N, N-dimethylformamide were added tert-butyldimethylsilyl chloride (45.87 g; 0.296 mol) and imidazole (21.46 g; 0.315 mol) and stirred at room temperature for 19 hours. The reaction mixture was poured into 1 L of water and extracted with ether. The extract was washed with water and saturated brine successively and then dried and concentrated. The residue was purified by silica gel chromatography (hexane-ethyl acetate 50:1) to give the compound 5 (97.20 g; 86 % yield) as a colorless oil.

[0120] To 850 ml of a solution of the compound 5 (97.20 g; 0.247 mol) in annydrous tetrahydrofuran was added 152 ml (0.252 mol) of a solution of 1.66 N n-butyllithium in hexane under a nitrogen atmosphere at -70 °C and stirred at the same temperature for 1.5 hours. To the mixture was added 171 ml (0.741 mol) of triisopropyl borate at - 70 °C and stirred for 3 hours with gradually warming to room temperature. Under cooling with ice, 500 ml of water and 320 ml of 5 % citric acid were added to the mixture and stirred at the same temperature for 30 minutes. The solution was extracted with ethyl acetate and the extract was washed with water and saturated brine successively, then dried and concentrated. The residue was purified by silica gel chromatography (hexane-ethyl acetate 2:1) to give the compound 2 (51.10 g; 58 % yield) as colorless crystals.

Reference Example 2 Synthesis of the compound (III-1)



(Step 1) Synthesis of the compound 8

[0122] To a solution of 15.30 g (62.4 mmol) of a compound 7 (Journal of Chemical Society, 1925, 1998) in 300 ml of 1, 2-dimethoxyethane was added 3.60 g (3.12 mmol) of tetrakis(triphenylphosphine)palladium (0) at room temperature. To the mixture were added a solution of 18.89 g (74.9 mmol) of a compound 6 (GB-A No. 2276162) in 80 ml of 99 % ethanol and 125 ml (250 mmol) of an aqueous solution of 2 M sodium carbonate and the reaction suspension was heated under refluxing in an argon atmosphere for 6 hours. After cooling, the reaction mixture was filtered off to remove an insoluble substance. The filtrate was acidified with 2 N hydrochloric acid and extracted with ethyl acetate. The extract was washed with 5 % aqueous solution of sodium bicarbonate and saturated brine successively, then dried and concentrated. The residue was purified by silica gel chromatography (hexane-ethylacetate 1:1) and recrystallized from hexane-ethyl acetate to give the compound 8 (15.68 g; 97 % yield) as colorless crystals.

(Step 2) Synthesis of the compound 9

[0123] To a suspension of the compound 8 (15.34 g; 59.39 mmol) in 240 ml of anhydrous dichloromethane were added 16.6 ml (118.8 mmol) of triethylamine and 6.93 ml (89.09 mmol) of methanesulfonyl chloride under ice-cooling and stirred at the same temperature for 2 hours. After the solvent was removed, the residue was acidified with 1 N hydrochloric acid (100 ml) and extracted with ethyl acetate. The extract was washed with 1 N hydrochloric acid, 5 % aqueous solution of sodium bicarbonate and saturated brine successively, then dried and concentrated. The residue was recrystallized from hexane-ethyl acetate to give the compound 9 (17.24 g; 86 % yield) as colorless crystals.

(Step 3) Synthesis of the compound (III-24)

[0124] To 210 ml of a suspension of the compound 9 (17.03 g; 50.63 mmol) in acetic acid were added 6.23 g (75.95 mmol) of sodium acetate and 3.91 ml (75.95 mmol) of bromine at room temperature and stirred at the same temperature for 16 hours. After 3.91 ml (75.95 mmol) of bromine was added to the reacted suspension and stirred at 50 °C for 4 hours, 3.91 ml (75.95 mmol) of bromine was added and stirred at 50 °C for 3 hours. The reaction mixture was poured into 1 L of 1 M aqueous sodium thiosulfate and stirred for 30 minutes. The precipitate was collected by filtration and washed with water. The obtained crystals were dissolved in 800 ml of chloroform, washed with 5 % aqueous solution of sodium bicarbonate and saturated brine successively, then dried and concentrated. The residue was recrystallized

from hexane-ethyl acetate to give the compound (III-24) (18.12 g; 86 % yield) as colorless crystals.

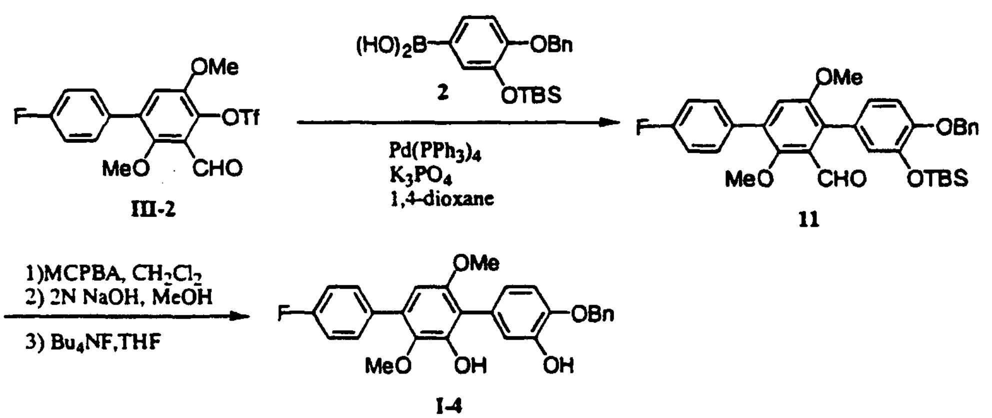
(Step 4) Synthesis of the compound 10

[0125] To a suspension of the compound (III-24) (15.80 g; 38.05 mmol) in 400 ml of 1, 2-dichloroethane was added 12.30 g (57.05 mmol) of 80 % m-chloroperoxybenzoic acid at room temperature and stirred at the same temperature for 17 hours. The reaction mixture was poured into 360 ml of 0.2 M aqueous sodium thiosulfate and extracted with chloroform. The extract was washed with 300 ml of 0.2 M sodium thiosulfate and 200 ml of 5 % of sodium bicarbonate (× 2) successively, then dried and concentrated. The residue (15.80 g) was dissolved in 330 ml of 1, 2-dimethoxyethane and 30 ml (120 mmol) of 4 N hydrochloric acid was added. After the reaction mixture was stirred at 50 °C for 12 hours and cooled, the solvent was removed and the residue was extracted with ethyl acetate. The extract was washed with 5 % aqueous solution of sodium bicarbonate and saturated brine successively, then dried and concentrated to give the compound 10 (14.35 g; 97 % yield) as pale brown crystals.

(Step 5) Synthesis of the compound (III-1)

[0126] Using an analogous procedure for the compound (I-4), 12.63 g of the compound (III-1) as colorless crystals (88 % yield) was obtained from the compound 10 (12.0 g; 29.76 mmol).

Example 2 Synthesis of the compound (I-4)



(Step 1) Synthesis of the compound 11

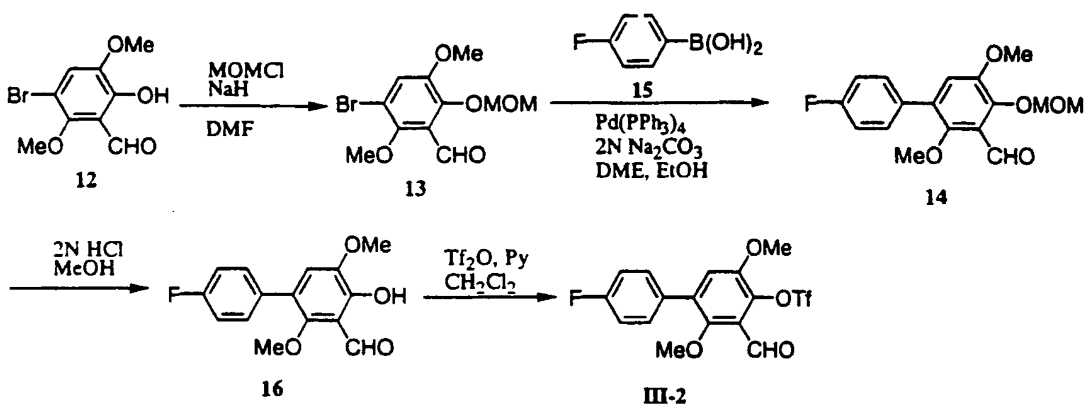
[0128] To a solution of 816 mg (2 mmol) of a compound (III-2) in 40 ml of 1, 4-dioxane were added 114 mg (0.1 mmol) of tetrakis(triphenylphosphine)palladium (0), 748 mg (2.09 mmol) of the compound 2 and 589 mg (2.77 mmol) of powders of anhydrous potassium phosphate at room temperature and heated in a nitrogen atmosphere at 85 °C for 23 hours. The reaction mixture was cooled and extracted with ethyl acetate. The extract was washed with 2 N hydrochloric acid, 5 % aqueous sodium bicarbonate and saturated brine successively, then dried and concentrated. The residue was purified by silica gel chromatography (hexane-ethyl acetate 4:1) and crystallized from pentane to give the compound 11 (745 mg; 67 % yield) as pale yellow crystals.

(Step 2) Synthesis of the compound (I-4)

[0129] To a solution of the compound 11 (557 mg; 1 mmol) in 10 ml of dichloromethane was added 259 mg (1.2 mmol) of 80 % m-chloroperbeuzoic acid at room temperature and stirred for 15 hours. The reaction mixture was poured into 0.1 M aqueous sodium thiosulflate and extracted with ethyl acetate. The extract was washed with 0.1 M aqueous sodium thiosulfate, 5 % aqueous sodium bicarbonate and saturated brine successively, then dried and concentrated. To a solution of 650 mg of the obtained residue in 5 ml of methanol was added a solution of 1 M sodium methoxide in 2 ml of methanol under ice-cooling and stirred for 30 minutes. After the reacted solution was acidified with 2 N hydro-

chloric acid and extracted with ethyl acetate, the extract was washed with saturated brine, then dried and concentrated. To a solution of 647 mg of the obtained residue in 10 ml of tetrahydrofuran was added 2 ml of 1 M tetrabutylammonium fluoride in tetrahydrofuran under ice-cooling and stirred for 30 minutes. The obtained reaction mixture was poured into 2 N aqueous hydrochloric acid under ice-cooling to acidiiy and extracted with ethyl acetate. The ethyl acetate layer was washed with water, 5 % aqueous sodium bicarbonate and saturated brine successively, then dried and concentrated. The residue was purified by silica gel chromatography (hexane-ethyl acetate 2:1) to give 275 mg of the compound (I-4) (62 % yield) as powders.

Reference Example 3 Synthesis of the compound (III-2)



(Step 1) Synthesis of the compound 13

[0131] To 26 ml of a solution of 2.61 g (10 mmol) of a compound 12 (Journal of Organic Chemistry, 1987, 52, 4485) in dimethylformamide were added 400 mg (10 mmol) of 60 % sodium hydride dispersion in oil and 836 mg (11 mmol) of chloromethyl methyl ether under ice-cooling and stirred for 30 minutes. After warming to room temperature, it was further stirred for 1 hours. The reaction mixture was concentrated under reduced pressure and extracted with ethyl acetate. The extract was washed with 5 % aqueous solution of sodium bicarbonate and saturated brine successively, then dried and concentrated. The residue was recrystallized from ethyl acetate-hexane-pentane to give the compound 13 (2.8 g; 92 % yield).

(Step 2) Synthesis of the compound 14

[0132] Using an analogous procedure for the compound 8, the compound 14 was obtained as a pale yellow oil (96 % yield) from the compound 13 and the compound 15 (Tokyo Kasei Kogyo Co., Ltd.).

(Step 3) Synthesis of the compound 16

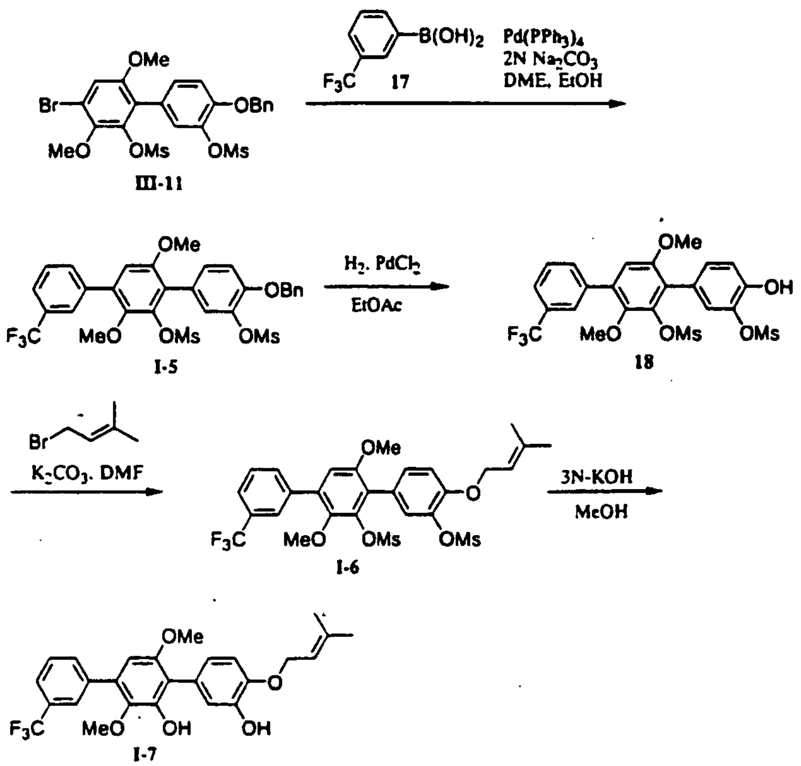
[0133] To 16 ml of a suspension of 1.38 g (4.3 mmol) of the compound 14 in methanol was added 4 ml of 2 N aqueous hydrochloric acid and stirred for 1 hour under warming at 60 °C. The reaction mixture was concentrated under reduced pressure and extracted with ethyl acetate. The extract was washed with 5 % aqueous sodium bicarbonate and saturated brine successively, then dried and concentrated to give the compound 16 (1.12 g; 94 % yield) as a yellow crystalline residue.

(Step 4) Synthesis of the compound (III-2)

[0134] To 12 ml of a solution of the compound 16 (1.12 g; 4.05 mmol) in anhydrous dichloromethane was added 1.02 ml (6.08 mmol) of triluoromethanesulfonic anhydride and then 980 ml (12.2 mmol) of pyridine under ice-cooling and stirred for 30 minutes. The reaction mixture was allowed to warm to room temperature and stirred for additional 2 hours and the solvent was removed. The residue was extracted with ethyl acetate, washed with 5 % aqueous sodium bicarbonate and saturated brine successively, then dried and-concentrated. The obtained crude product was purified by sil-

ica gel chromatography to give 1.23 g of the compound (III-2) (74 % yield) as a white crystalline residue.

Example 3 Synthesis of the compounds (I-5), (I-6) and (I-7)



(Step 1) Synthesis of the compound (I-5)

[0136] Using an analogous procedure for the compound 1 in Example 1, 634 mg (0.972 mmol) of the compound (I-5) was synthesized from 881 mg (1.50 mmol) of the compound (III-11) and 370 mg (1.95 mmol) of 3-trifluoromethyl boric acid. 65 % yield.

(Step 2) Synthesis of the compound 18

[0137] Using an analogous procedure for the compound 3 in Example 1, the compound 18 (360 mg; 0.640 mmol) was synthesized from 433 mg (0.664 mmol) of the compound (I-5). 96 % yield.

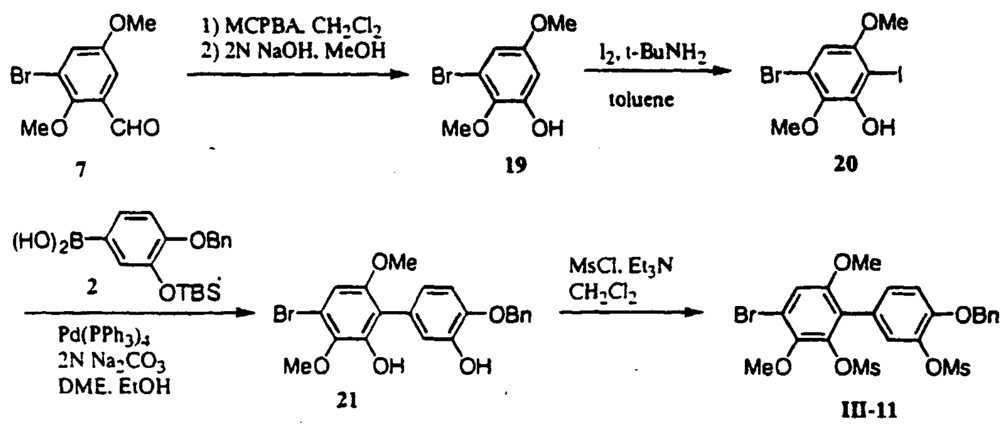
(Step 3) Synthesis of the compound (I-6)

[0138] Using an analogous procedure for the compound (I-3) in Example 1, 185 mg (0.293 mmol) of the compound (I-6) was synthesized from the compound 18 (170 mg; 0.302 mmol). 97 % yield.

(Step 4) Synthesis of the compound (I-7)

[0139] Using an analogous procedure for the compound (I-1) in Example 1, 85 mg (0.179 mmol) of the compound (I-7) was synthesized from 150 mg (0.238 mmol) of the compound (I-6). 75% yield.

Reference Example 4 Synthesis of the compound (III-11)



(Step 1) Synthesis of the compound 19

[0141] Using an analogous procedure for the compound 10 in Reference Example 2, the compound 19 (24.04 g; 103 mmol) was synthesized from the compound 7 (40.03 g; 163 mmol). 63 % yield.

(Step 2) Synthesis of the compound 20

[0142] To a solution of tert-butylamine (5.0 ml; 47.8 mmol) in 10 ml of toluene was added iodine (5.94 g; 23.39 mmol) under a nitrogen atmosphere and stirred for 50 minutes at room temperature. The compound 19 (5.46 g; 23.43 mmol) was added to the solution under ice-cooling, then warmed to room temperature and stirred for 6 days. The reaction mixture was poured into 1 M of aqueous sodium thiosulfate and extracted with ethyl acetate. The extract was washed with 1 M aqueous sodium thiosulfate and saturated brine successively, then dried and concentrated to give the compound 20 (8.30 g; 23.16 mmol). 99 % yield.

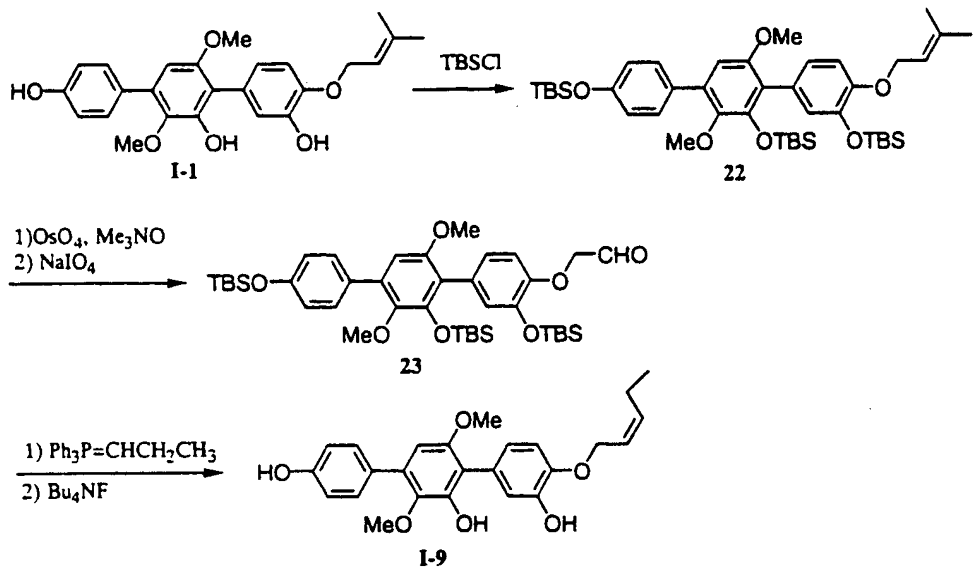
(Step 3) Synthesis of the compound 21

[0143] Using an analogous procedure for the compound 1 in Example 1, the compound 21 (2.10 g: 4.87 mmol) was synthesized from the compound 20 (8.70g; 24.20 mmol). 20 % yield.

(Step 4) Synthesis of the compound (III-11)

[0144] Using an analogous procedure for the compound (I-2) in Example 1, 2.61 g (4.44 mmol) of the compound (III-11) was synthesized from the compound 21 (3.20 g: 7.42 mmol). 60 % yield.

Example 4 Synthesis of the compound (I-9)



(Step 1) Synthesis of the compound 22

[0146] Using an analogous procedure described in Reference Example 1, 1.53 g (3.63 mmol) of the compound (I-1) was silylated and the obtained crude product was crystallized from methanol to obtain the compound 22 (2.62 g; 95 % yield) as colorless crystals.

(Step 2) Synthesis of the compound 23

[0147] To a solution of the compound 22 (2.38 g; 3.1 mmol) in 90 ml of acetone were added 415 mg (3.74 mmol) of trimethylamine-N-oxide dihydrate and 1.60 ml of 5 % aqueous solution of osmium tetroxide (0.3 mmol) and stirred for 1 hour at room temperature. After 20 ml of water was added to the reaction mixture, 4.0 g of sodium bicarbonate and 4.0 g of sodium bisulfite were added and stirred for 30 minutes. The reaction mixture was concentrated under reduced pressure and the residue was extracted with ethyl acetate. The extract was washed with saturated brine, then dried and concentrated.

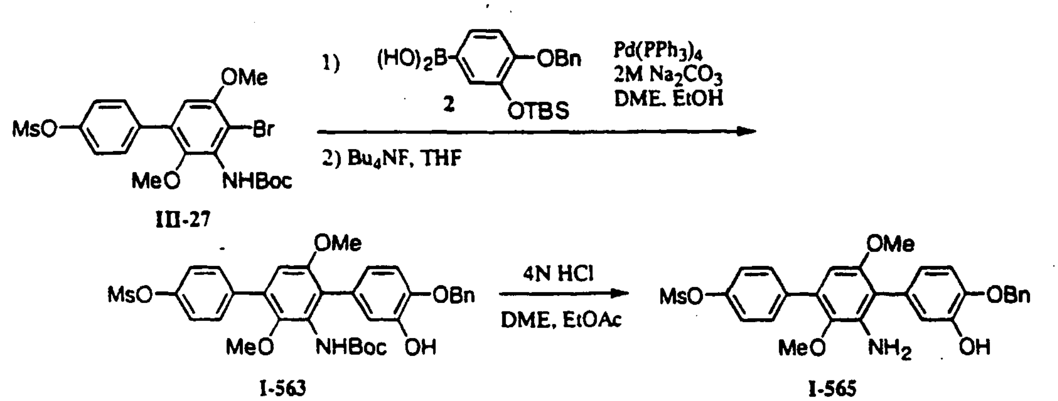
[0148] A solution of 1.96 g (9.16 mmol) of sodium periodate in 33 ml of water was added dropwise to a solution of 2.46 g of the residue obtained by the above method in 90 ml of ethanol with stirring at room temperature. After stirring for 2 hours, 100 ml of water was added to the reaction mixture and the precipitate was collected by filtration and dried to give the compound 23 (1.98 g; 87 % yield) as powder.

(Step 3) Synthesis of the compound (I-9)

[0149] To a suspension of 146 mg (0.38 mmol) of n-propyltriphenylphosphonium bromide in 2.5 ml of anhydrous tetrahydrofuran was added 32 mg (0.29 mmol) of potassium tert-butoxide in a nitrogen atmosphere at 0 °C and stirred at the same temperature for 1 hour. The reaction mixture was cooled to -78 °C, a solution of the compound 23 (70 mg; 0.095 mmol) in 1.5 ml of anhydrous tetrahydrofuran was added and stirred for 30 minutes at the same temperature and for additional 1 hour at room temperature. The reaction mixture was poured into an ice-cooling aqueous solution of saturated ammonium chloride and extracted with ethyl acetate. The extract was washed with saturated brine, then dried and concentrated.

[0150] Using an analogous procedure described in Example 2 Step 2, 70 mg of the residue obtained by the above method was desilylated and the obtained crude product was purified by silica gel chromatography (toluene-ethyl acetate 4:1) to give 37 mg of the compound (I-9) as pale yellow crystals.

Example 5 Synthesis of the compound (I-565)



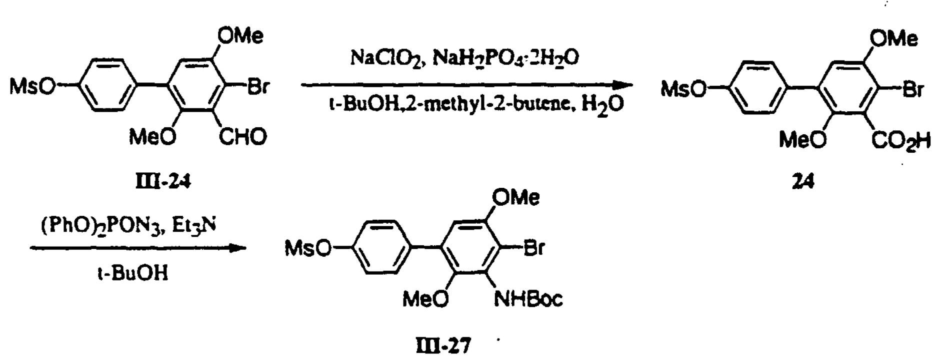
(Step 1) Synthesis of the compound (I-563)

[0152] Using an analogous procedure for the compound 2 in Example 1, 850 mg of the compound (I-563) was obtained from a compound (III-27) (800 mg; 1.59 mmol) and the compound 2 (1.25 g; 3.50 mmol) as colorless crystals (86 % yield).

(Step 2) Synthesis of the compound (I-565)

[0153] To a solution of 120 mg (0.193 mmol) of the compound (I-563) in 3 ml dimethoxyethane and 1 ml of ethyl acetate was added 2.4 ml of 4 N hydrochloric acid at 40 °C and stirred at the same temperature for 2 hours 20 minutes. After cooling, the reaction mixture was neutralized with aqueous solution of saturated sodium bicarbonate and extracted with ethyl acetate. The extract was washed with saturated aqueous solution of sodium bicarbonate and saturate brine, then dried and concentrated. The obtained crude product was crystallized from hexane-ethyl acetate to give 93 mg of the compound (I-565) as pale yellow crystals (92 % yield).

Reference Example 5 Synthesis of the compound (III-27)



(Step 1) Synthesis of the compound 24

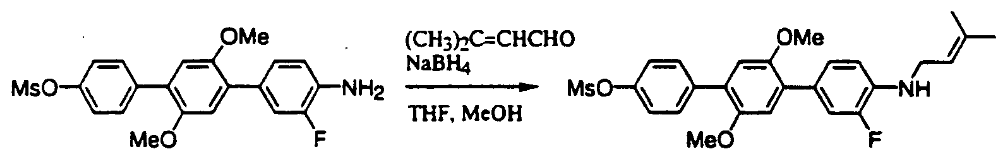
[0155] In a mixture of 17.5 ml of tert-butanol and 5.3 ml of 2-methyl-2-butene was suspended 415 mg (1.00 mmol) of the compound (III-24), 6.7 ml of aqueous solution of 724 mg (8.00 mmol) of sodium chlorite and 968 mg (6.20 mmol) of sodium dihydrogen phosphate dihydrate was added and stirred at the same temperature for 4 hours 30 minutes. The solution of 1 M sodium thiosulfate was added to the reaction mixture and the mixture was extracted with ethyl acetate.

Then, organic layer was extracted with aqueous solution of saturated sodium bicarbonate. Then the aqueous layer was acidified with conc. hydrochloric acid and extracted with ethyl acetate. The extract was washed with saturated brine, then dried and concentrated to give the compound 24 (384 mg; 89 % yield) as colorless crystals.

(Step 2) Synthesis of the compound (III-27)

[0156] To 10 ml of a suspension of the compound 24 (1.50 g; 3.48 mmol) in tert-butanol were added 0.533 ml (3.83 mmol) of triethylamine, followed by 0.825 ml (3.83 ml) of diphenyl phosphate azide, and the mixture was stirred at 100 °C for 23 hours. After the reaction mixture was cooled, water was added to it and the mixture was extracted with ethyl acetate. The extract was washed with saturated aqueous solution of sodium bicarbonate and saturated brine, then dried and concentrated. The residue was purified by silica gel chromatography (hexane-ethyl acetate 2.5:1) to give 1.43 g of the compound (III-27) as colorless form product (82 % yield).

Example 6 Synthesis of the compound (I-480)

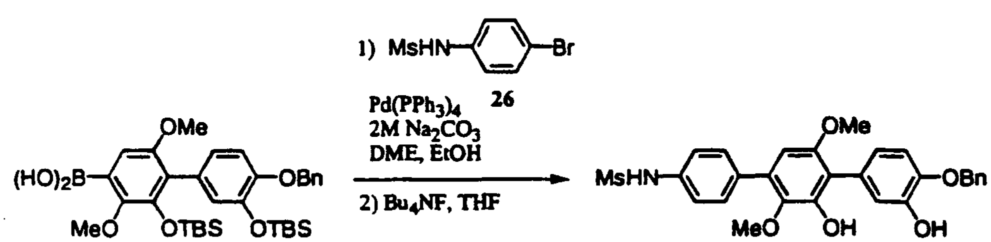


Deprotected compound of I-479

I-480

[0158] To a solution of 120 mg of a compound which was eliminated a Boc group of the compound (I-479) in 2 ml of tetrahydrofuran and 0.5 ml of methanol were added 33 ml (0.34 mmol) of 3-methyl-2-butenal and 90 ml (0.26 mmol) of 3 M aqueous solution of sulfuric acid at 0 °C and stirred for 10 minutes. Further, 19.6 mg of sodium borohydride was added in small portions to the mixture and stirred at room temperature for 1 hour. The saturated aqueous solution of sodium bicarbonate was added to the reaction mixture and extracted with ethyl acetate. The extract was washed with saturated brine, then dried and concentrated. The residue was purified by silica gel chromatography (hexane-ethyl acetate 3:1) to give 98 mg of the compound (I-480) as colorless crystals (78 % yield).

Example 7 Synthesis of the compound (I-628)

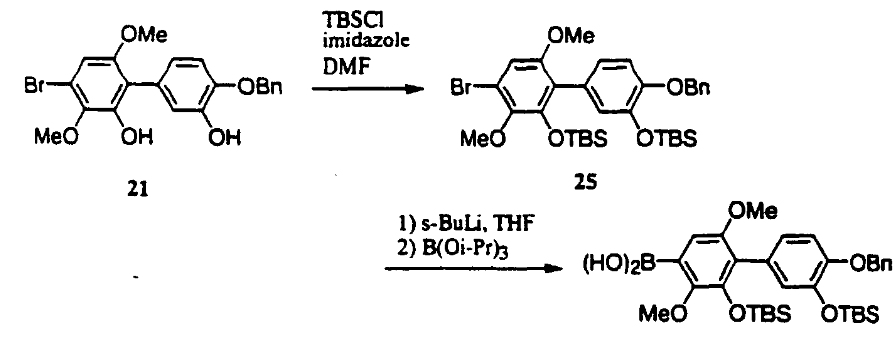


III-44

I-628

[0160] Using an analogous procedure for the compound 1 in Example 1, 1.2 g (2 mmol) of the compound (III-44) was reacted with 551 mg (2.2 mmol) of 4-bromomethanesulfonyl anilide were reacted, followed by desilylated by an analogous procedure described in Example 1 Step 2. The obtained crude product was crystallized from ethyl acetate-hexane to obtain 760 mg of the compound (I-628) as pale yellow crystals (73 % yield).

Reference Example 6 Synthesis of the compound (III-44)



III-44

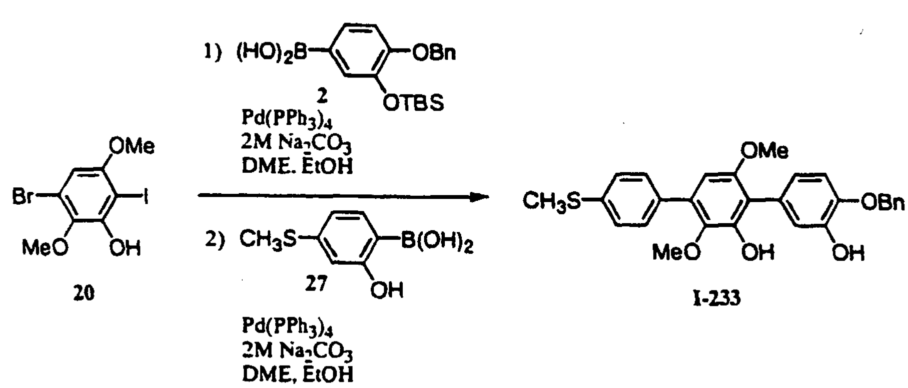
(Step 1) Synthesis of the compound 25

[0162] Using an analogous procedure for the compound 5 in Reference Example 1, a crude product was synthesized by the reaction of 22.2 g (52.7 mmol) of the compound 21, 8.95 g (132 mmol) of imidazole and 17.5 g (1.16 mmol) of tert-butyldimethylsilyl chloride. The obtained product was purified by silica gel chromatography (ethyl acetate:hexane=1:20) and crystallized from ethyl acetate-hexane to give 29.7 g of the compound 25 as colorless crystals (85% yield).

(Step 2) Synthesis of the compound (III-44)

[0163] Using an analogous procedure for the compound 2 in Reference Example 1, 402.7 g (610 mmol) of the compound 25 was reacted with 678 ml (814 mmol) of 1.08 N s-butyl lithium in cyclohexane, followed by addition of 282 ml (1.22 mol) of triisopropyl borate to give 246 g of the compound (III-44) as colorless powders (65 % yield).

Example 8 Synthesis of the compound (I-233)



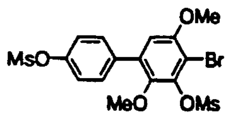
I-233

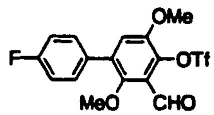
[0165] In an argon atmosphere, 2.87 g (8.0 mmol) of the compound 20 was dissolved in 32 ml of dimethoxyethane and 8 ml of ethanol, 3.01 g of the compound 2 and 16 ml of 2 M aqueous solution of sodium carbonate were added and the reaction mixture was degassed. To the mixture was added 462 mg (0.4 mmol) of palladium tetrakistriphenylphosphine and the mixture was heated under refluxing for 2 hours. After the reaction mixture was cooled to room temperature, 2.02 g (12.0 mmol) of 4-methylthiophenyl boronic acid, 462 mg (0.4 mmol) of palladium tetrakistriphenylphosphine, 16 ml of 2 M aqueous solution of sodium carbonate, 32 ml of dimethoxyethane and 8 ml of

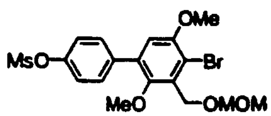
ethanol were added to it. Then, the reaction mixture was degassed again and heated under refluxing for 16 hours. After the reaction mixture was cooled to room temperature, 100 ml of 5 % aqueous citric acid was added and stirred at the same temperature for 1 hour. Ethyl acetate was added to the reaction mixture and the organic layer was washed with 5 % aqueous citric acid, water, saturated aqueous solution of sodium bicarbonate and saturated brine successively, then dried and concentrated. The residue was purified by silica gel chromatography (hexane-ethyl acetate 3:1) to obtain 2.13 g of crude crystals. The obtained crude crystals were recrystallized from hexane-ethyl acetate to give 1.66 g of the compound (I-233) as colorless crystals (44 % yield)

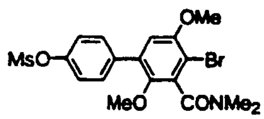
Example 9 Synthesis of other compounds

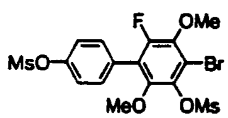
[0166] Following compounds (I) were synthesized by analogous procedures described above. The structures and physical constants of the compounds (III) and (I) are as follows.

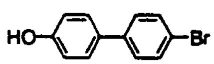
III-1 

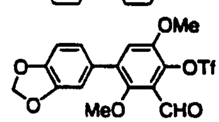
III-2 

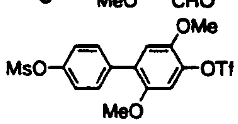
III-3 

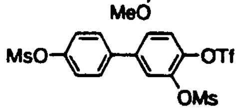
III-4 

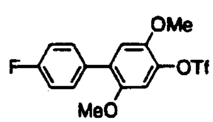
III-5 

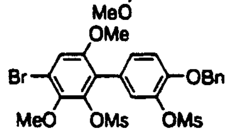
III-6 

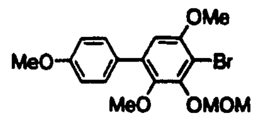
III-7 

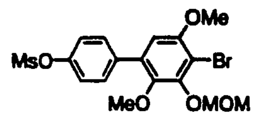
III-8 

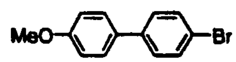
III-9 

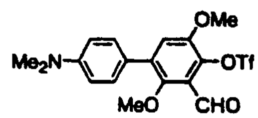
III-10 

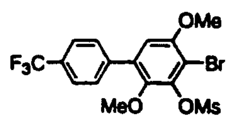
III-11 

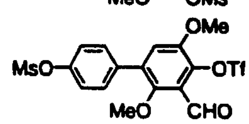
III-12 

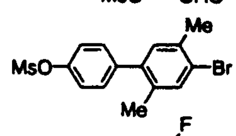
III-13 

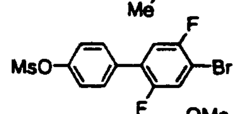
III-14 

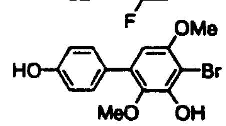
III-15 

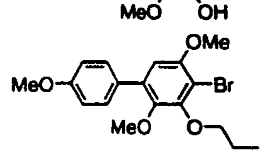
III-16 

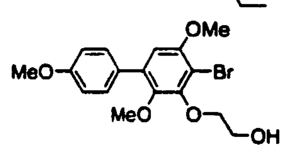
III-17 

III-18 

III-19 

III-20 

III-21 

III-22 

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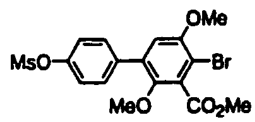

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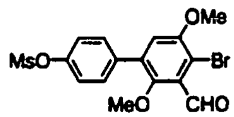

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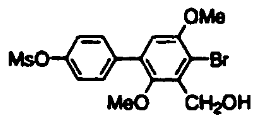

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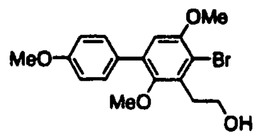

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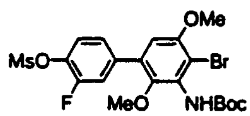

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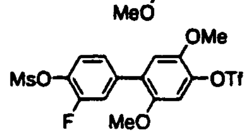

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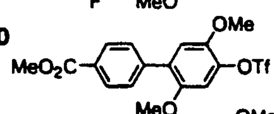

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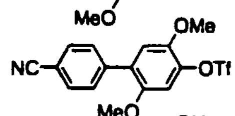

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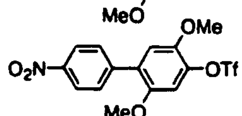

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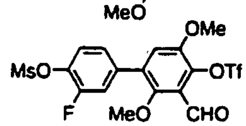

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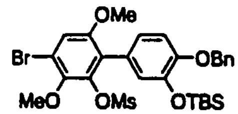

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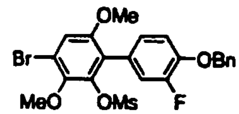

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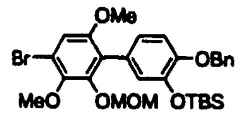

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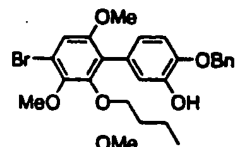

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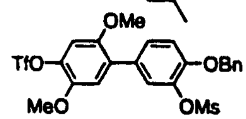

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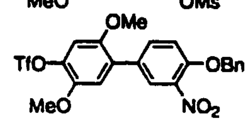

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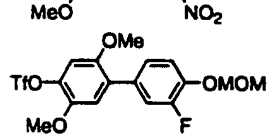

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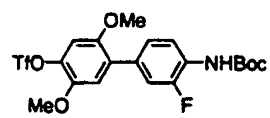

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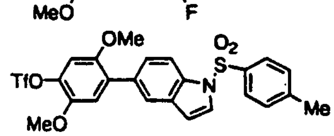

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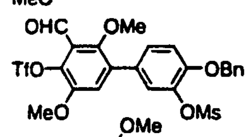

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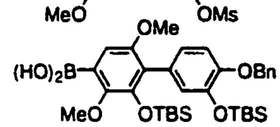
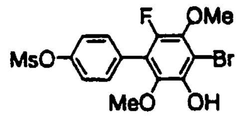
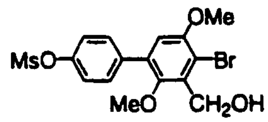
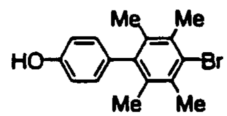
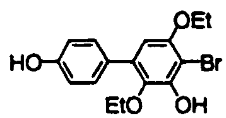
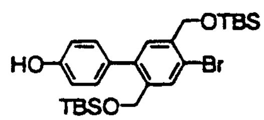


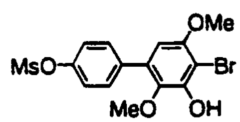
III-45 

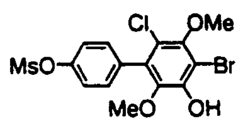
III-46 

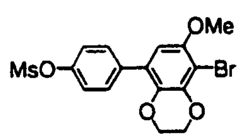
III-47 

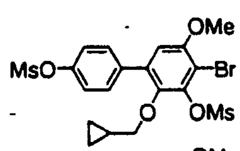
III-48 

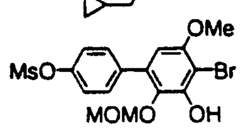
III-49 

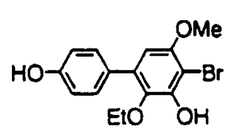
III-50 

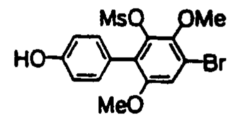
III-51 

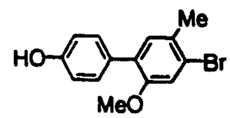
III-52 

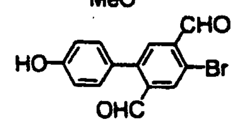
III-53 

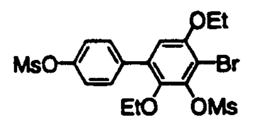
III-54 

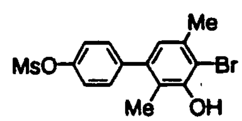
III-55 

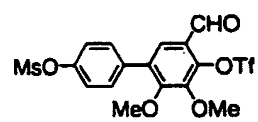
III-56 

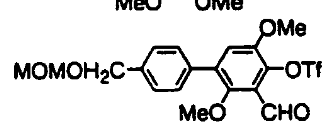
III-57 

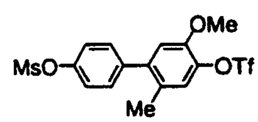
III-58 

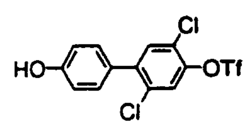
III-59 

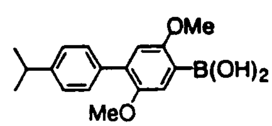
III-60 

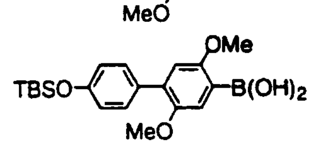
III-61 

III-62 

III-63 

III-64 

III-65 

III-66 

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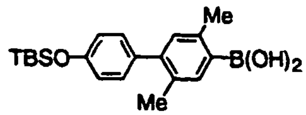

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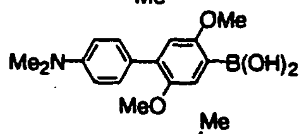

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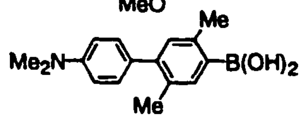

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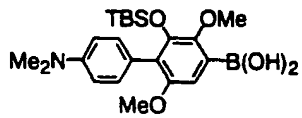

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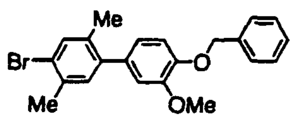

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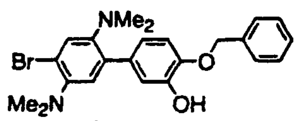

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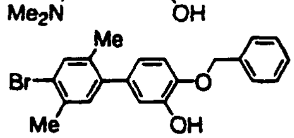

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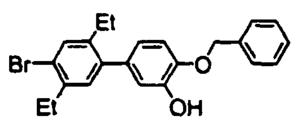

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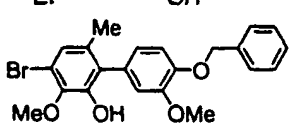

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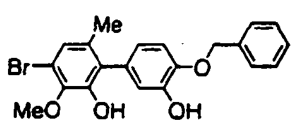

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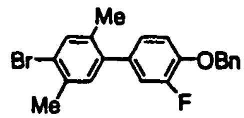

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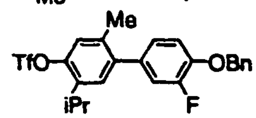

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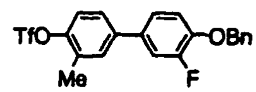

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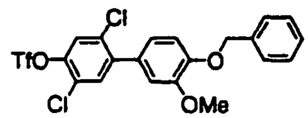

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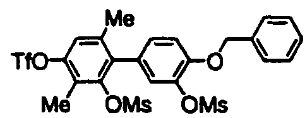

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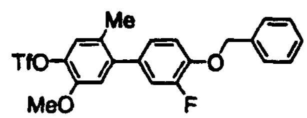

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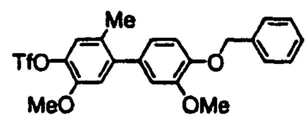

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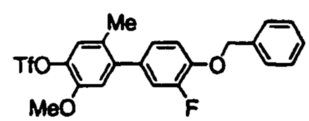

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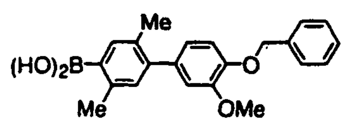

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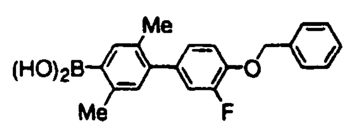

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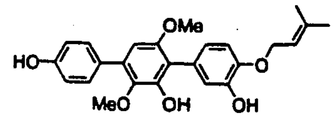

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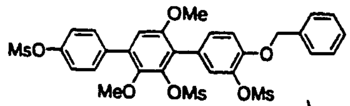

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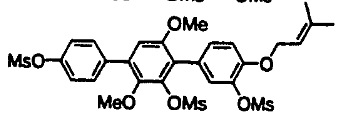

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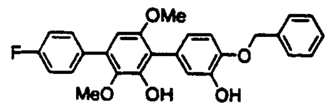

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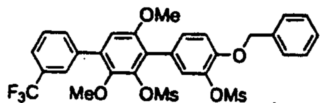

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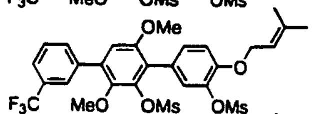

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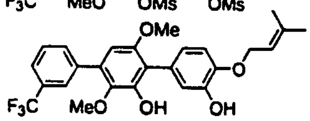

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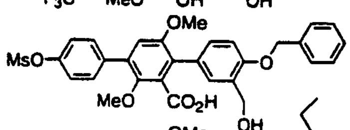

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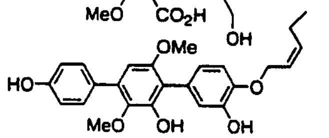

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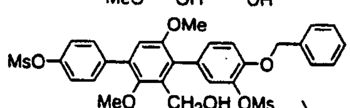

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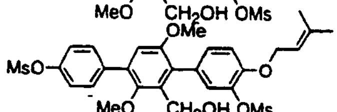

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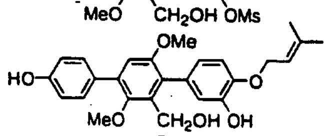

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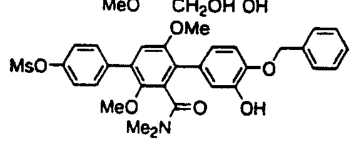

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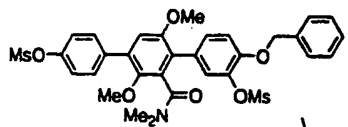

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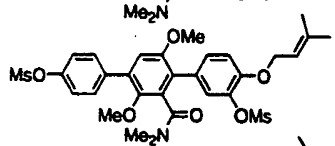

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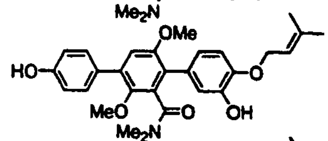

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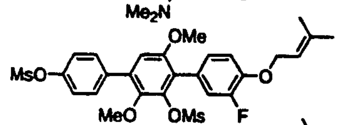

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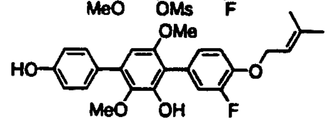

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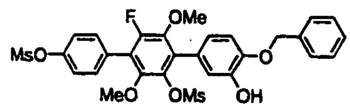

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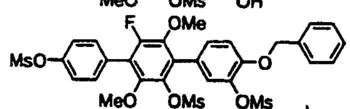

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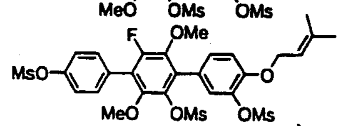

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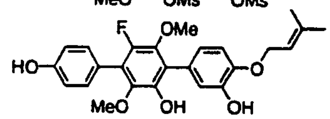

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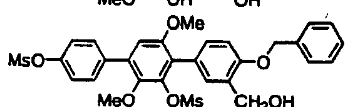

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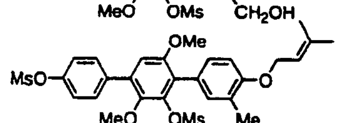

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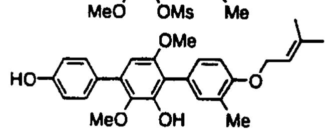

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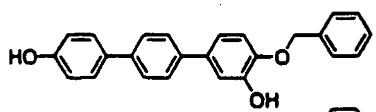

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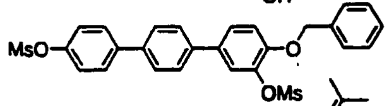

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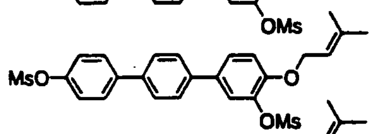

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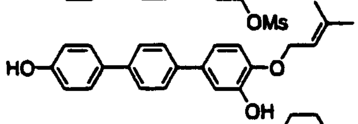

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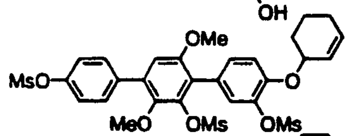

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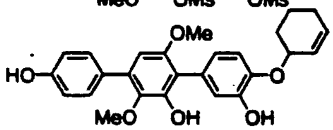

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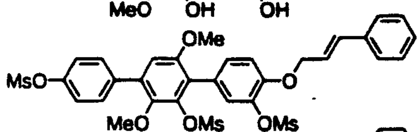

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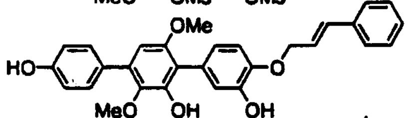

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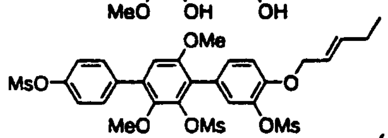

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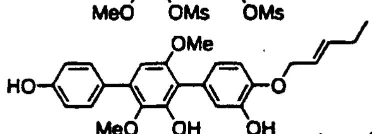

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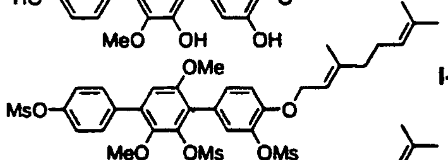

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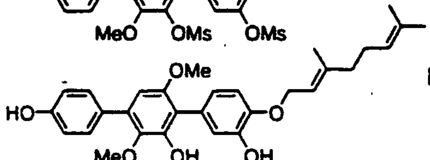

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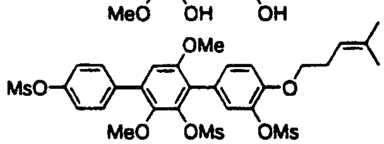

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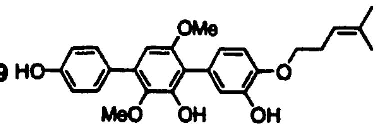

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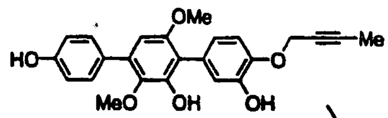

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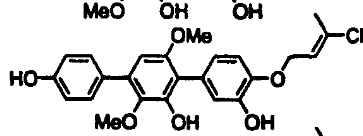

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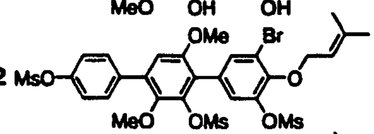

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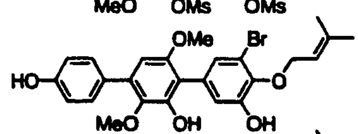

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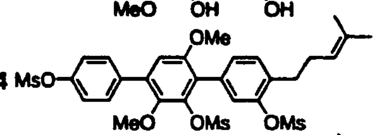

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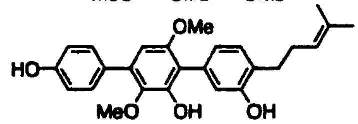

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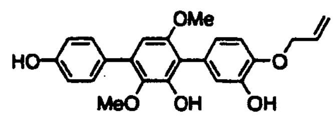

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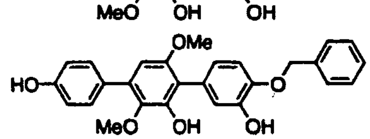

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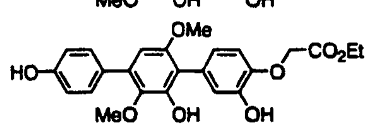

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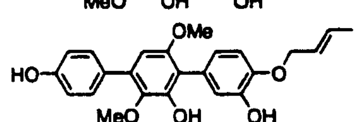

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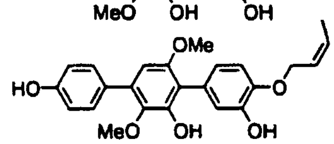

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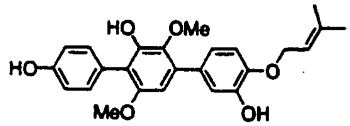

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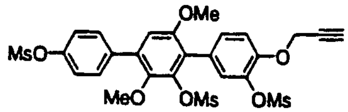

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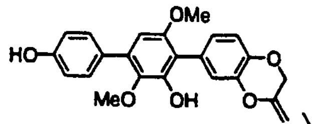

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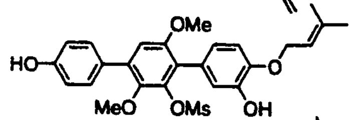

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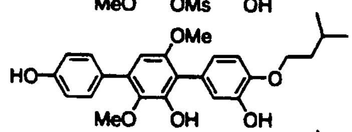

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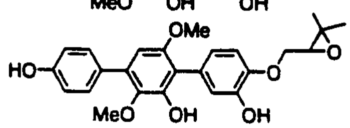

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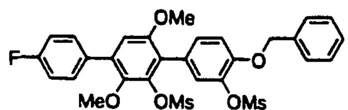

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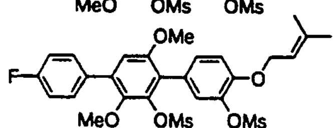

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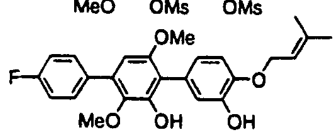

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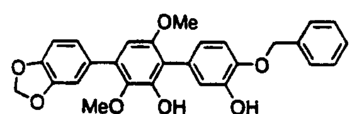

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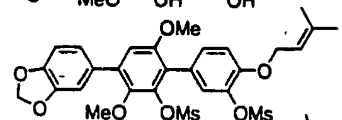

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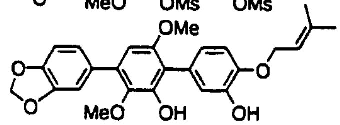

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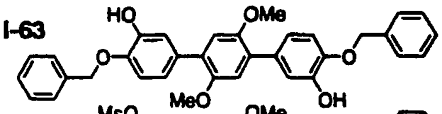

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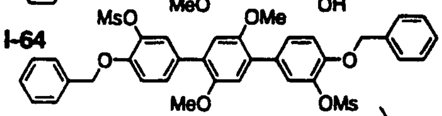

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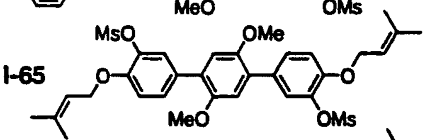

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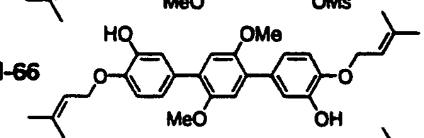

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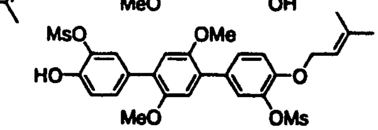

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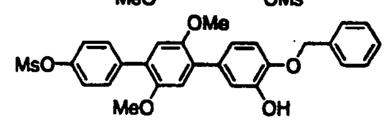

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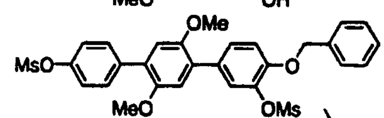

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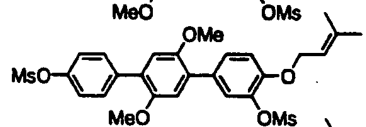

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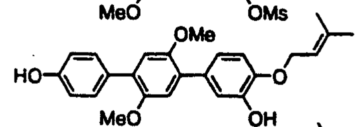

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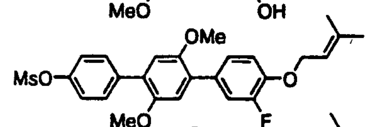

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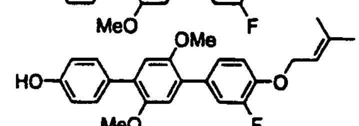

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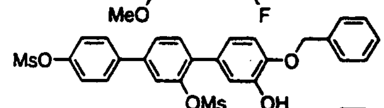

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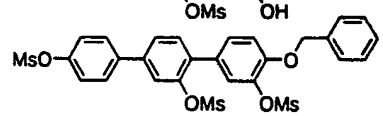

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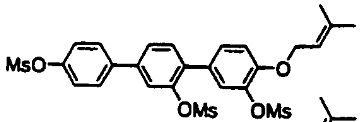

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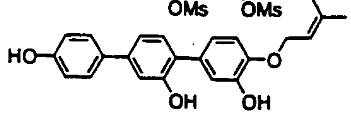

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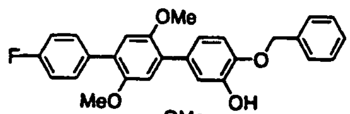

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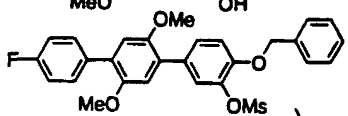

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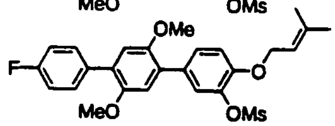

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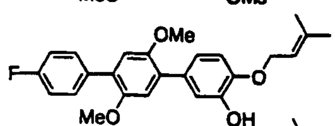

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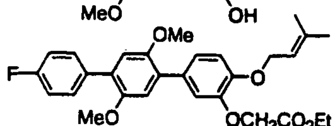

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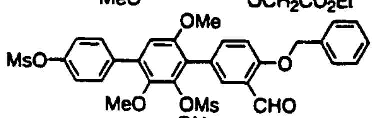

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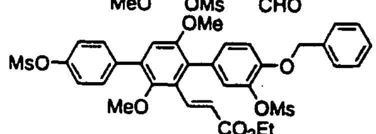

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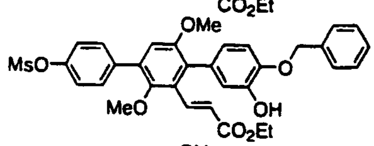

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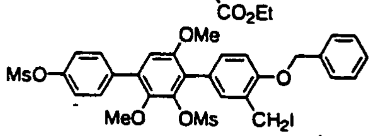

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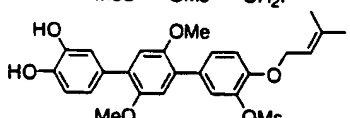

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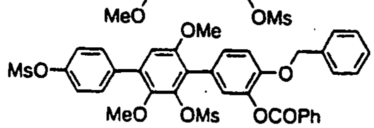

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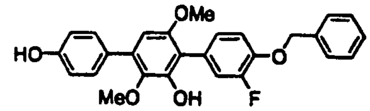

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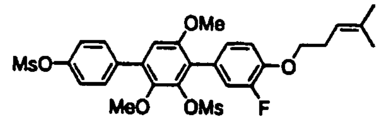

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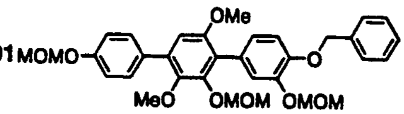

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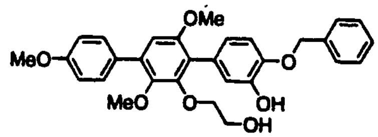

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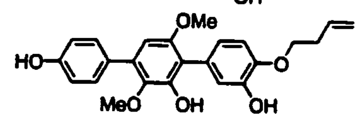

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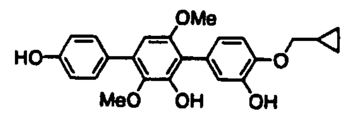

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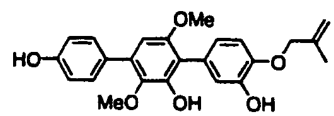

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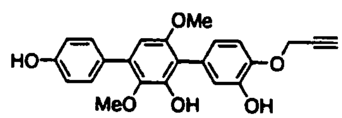

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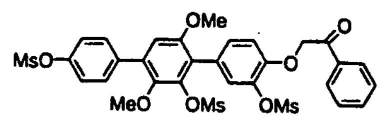

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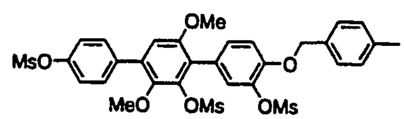

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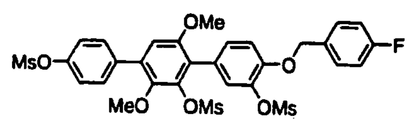

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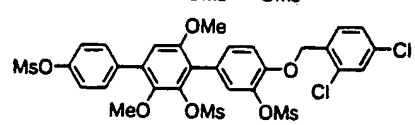
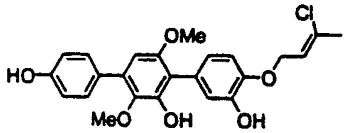
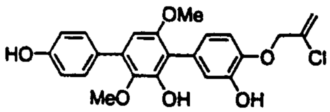
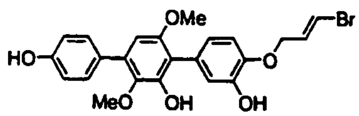
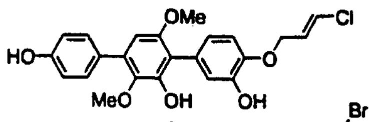
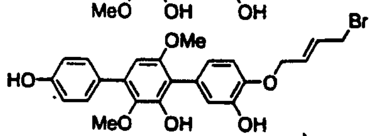


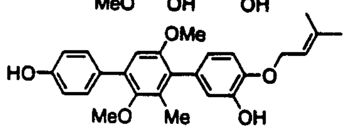
I-101 

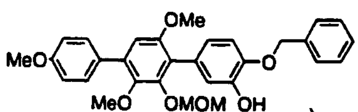
I-102 

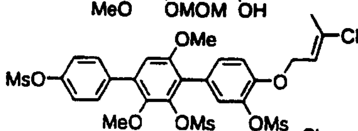
I-103 

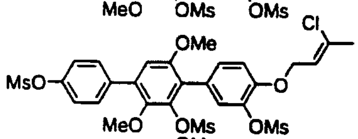
I-104 

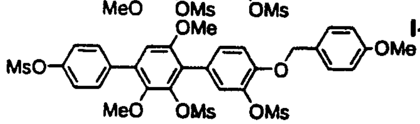
I-105 

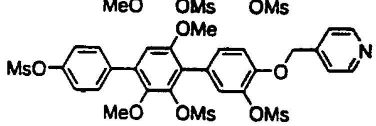
I-106 

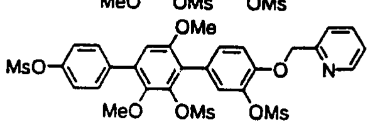
I-107 

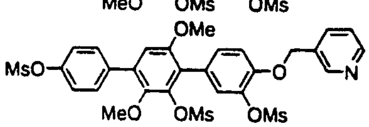
I-108 

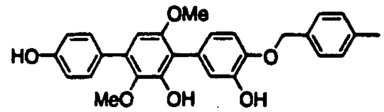
I-109 

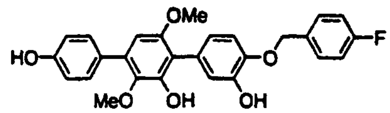
I-110 

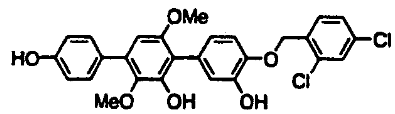
I-111 

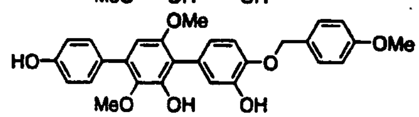
I-112 

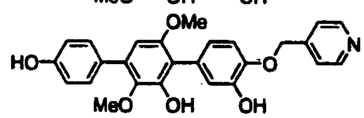
I-113 

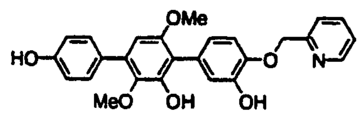
I-114 

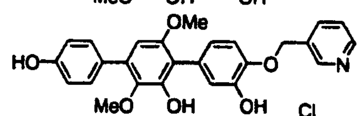
I-115 

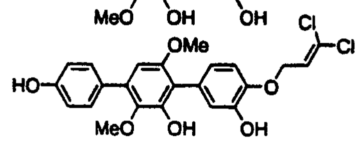
I-116 

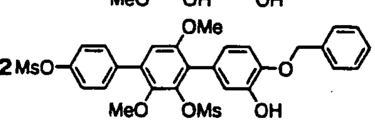
I-117 

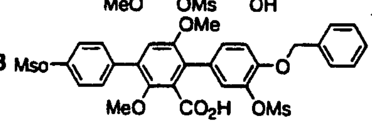
I-118 

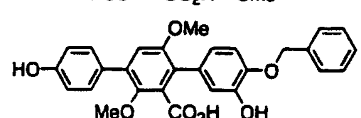
I-119 

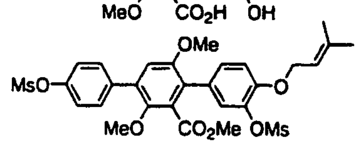
I-120 

I-121 

I-122 

I-123 

I-124 

I-125 

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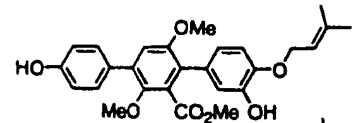

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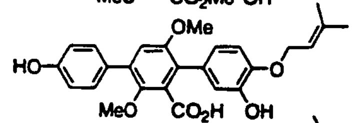

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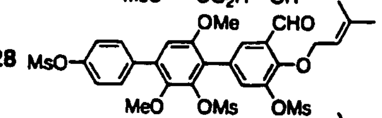

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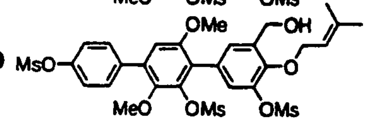

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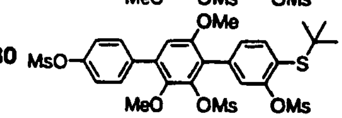

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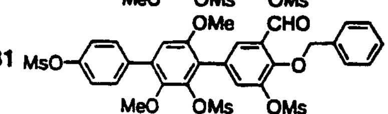

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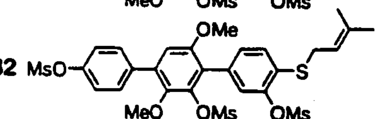

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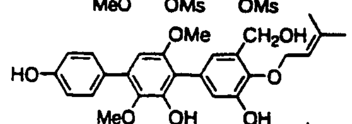

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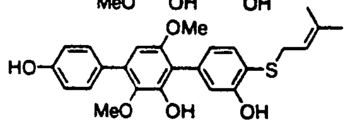

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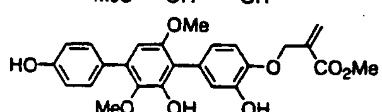

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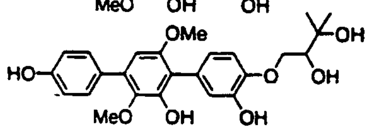

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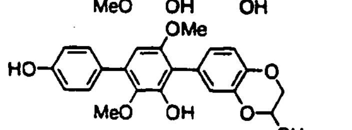

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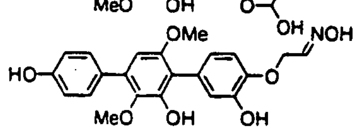

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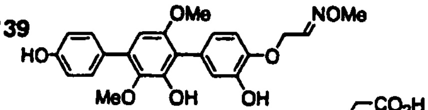

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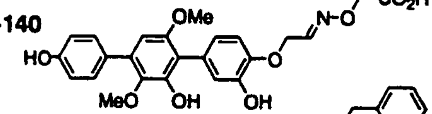

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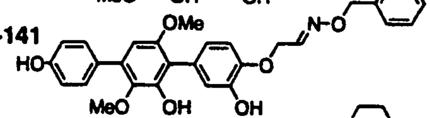

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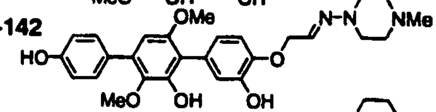

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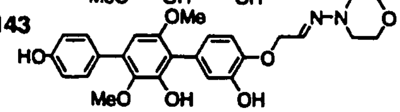

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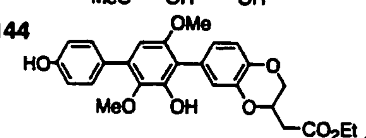

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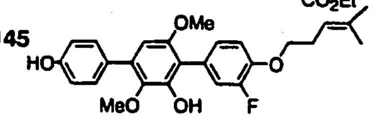

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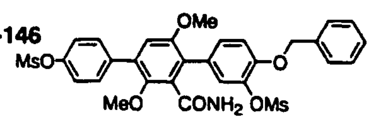

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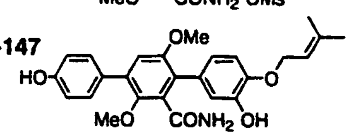

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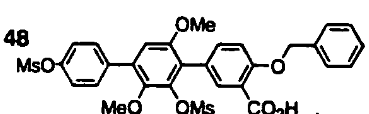

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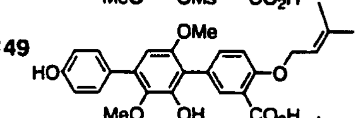

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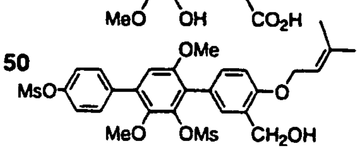

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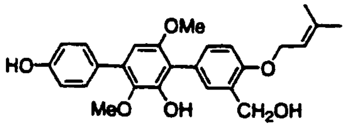

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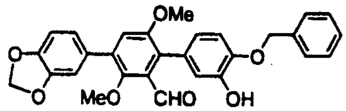

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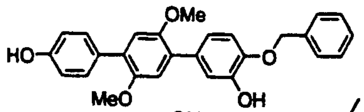

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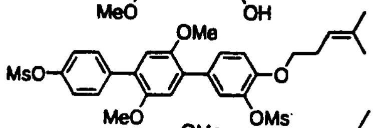

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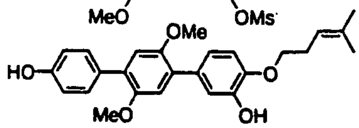

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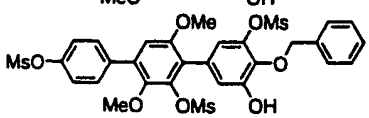

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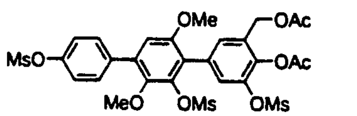

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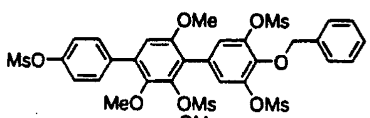

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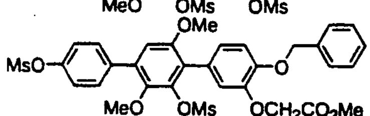

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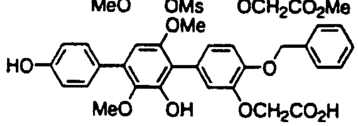

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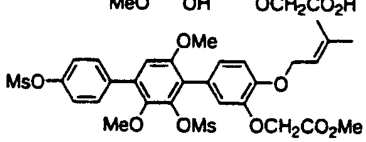

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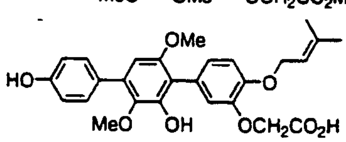

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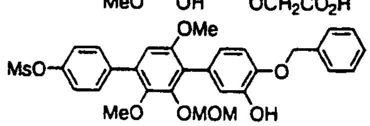

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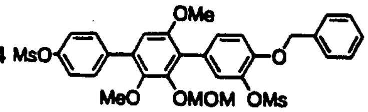

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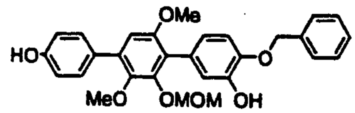

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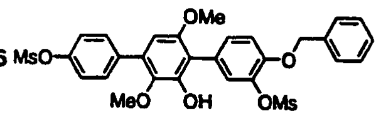

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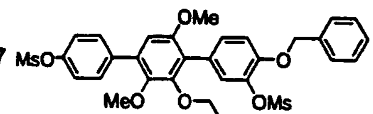

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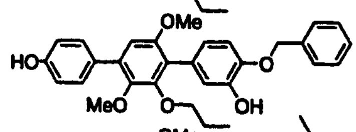

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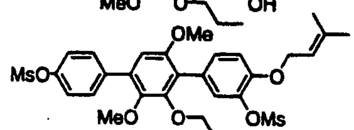

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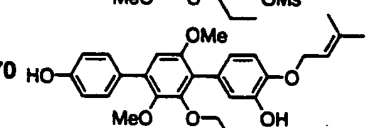

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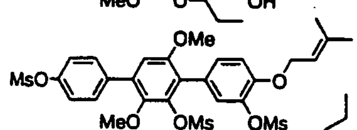

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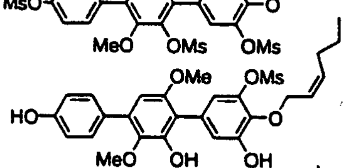

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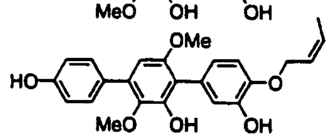

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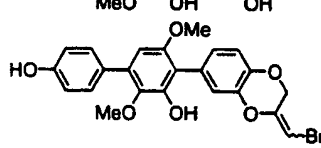

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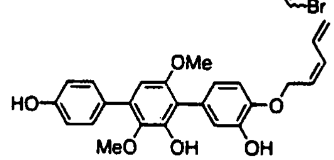

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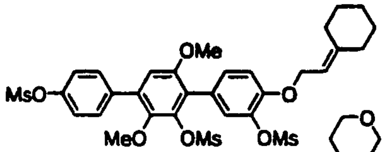

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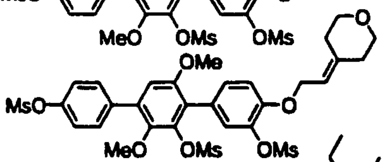

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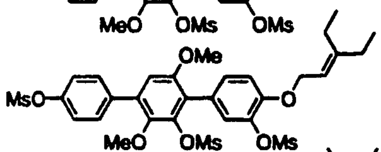

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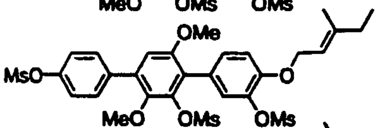

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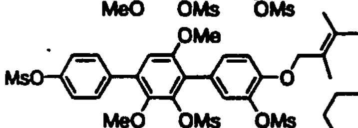

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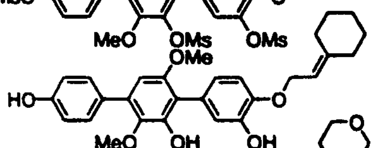

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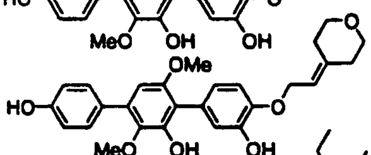

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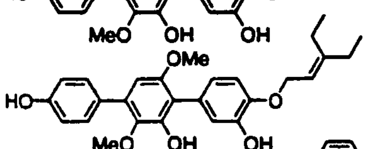

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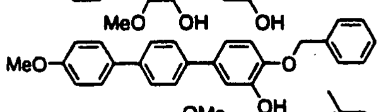

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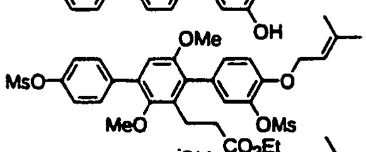

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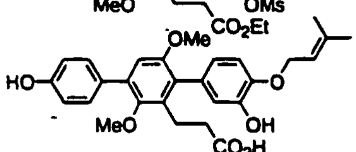

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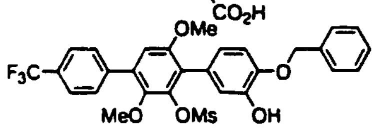

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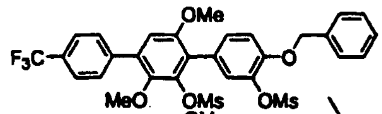

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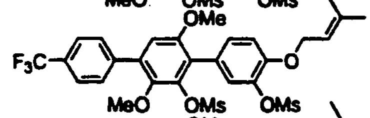

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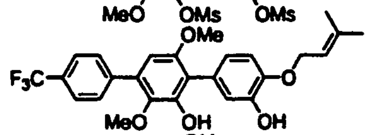

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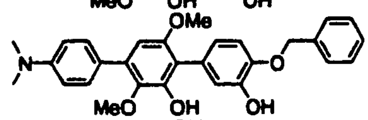

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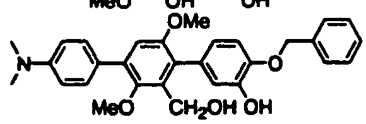

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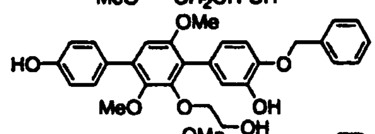

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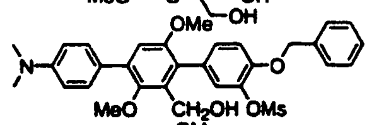

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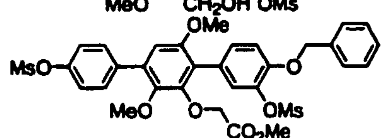

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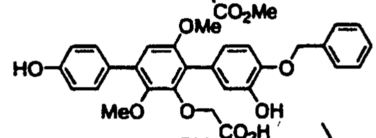

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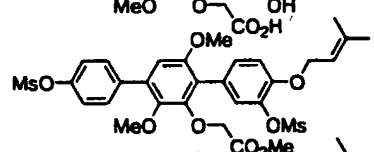

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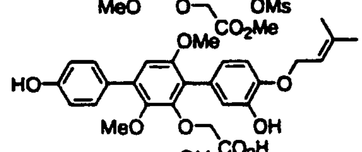

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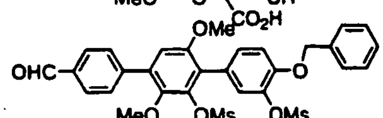

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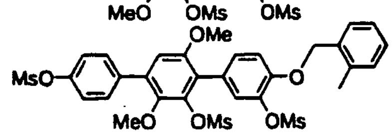

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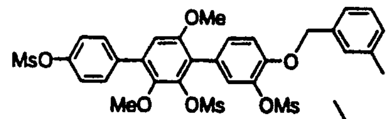

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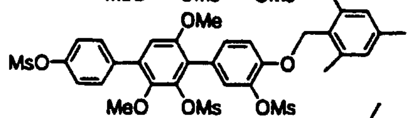

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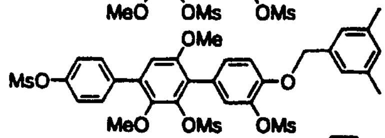

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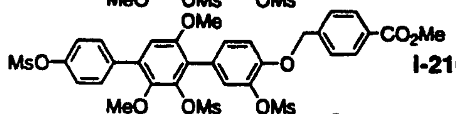

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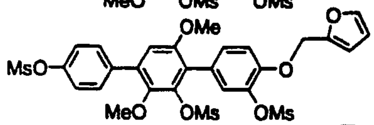

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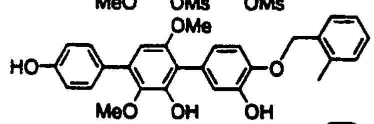

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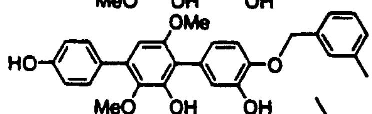

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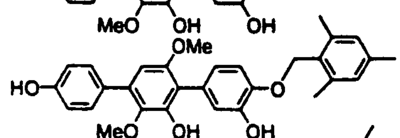

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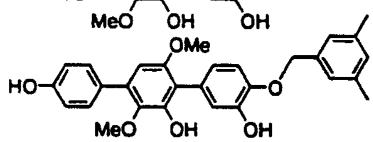

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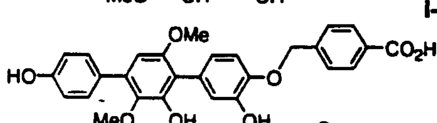

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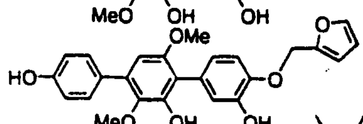

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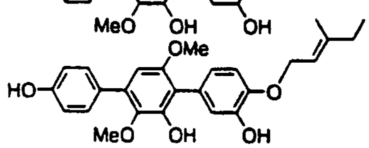

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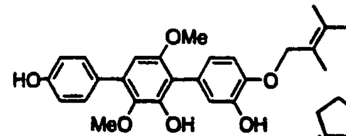

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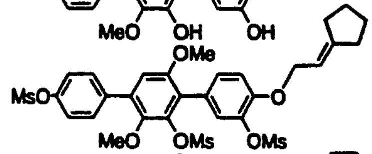

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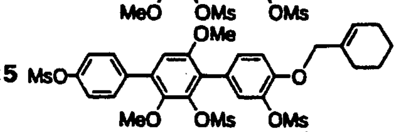

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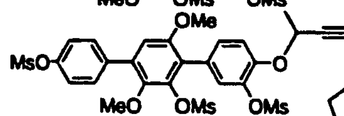

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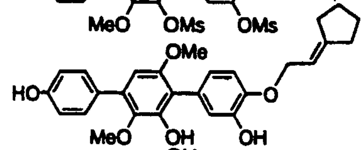

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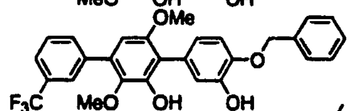

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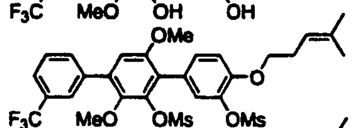

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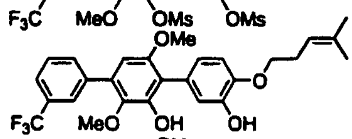

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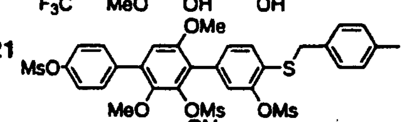

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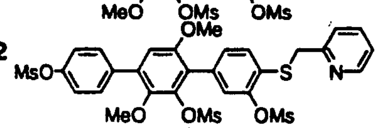

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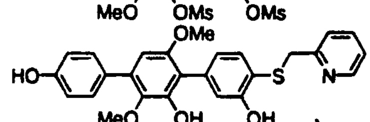

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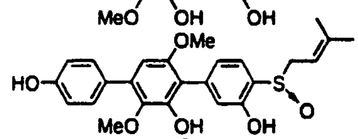

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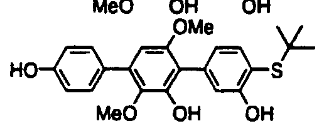

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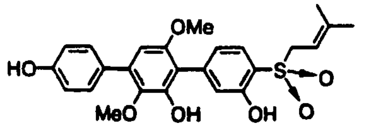

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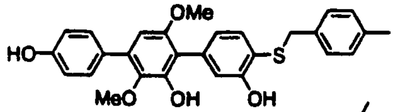

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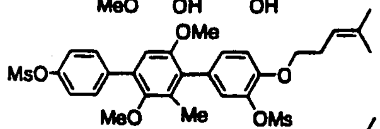

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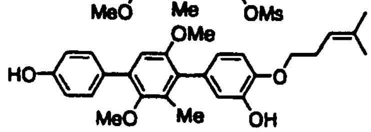

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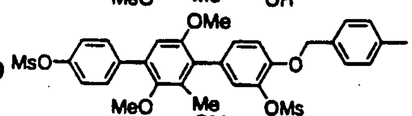

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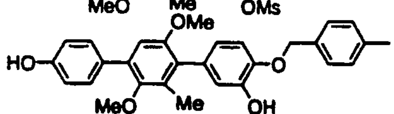

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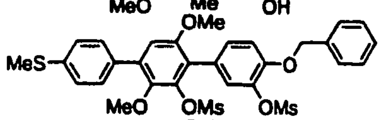

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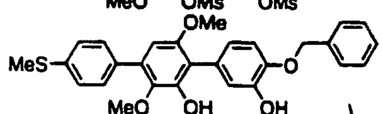

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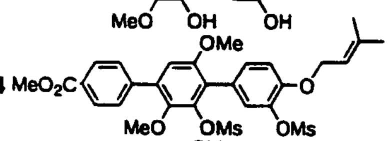

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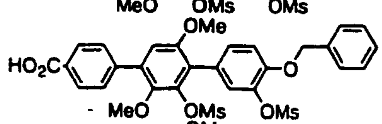

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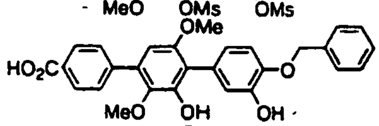

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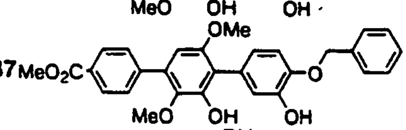

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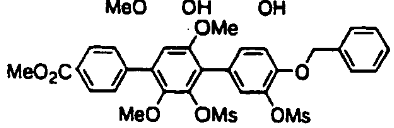

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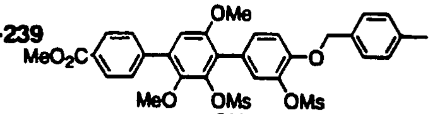

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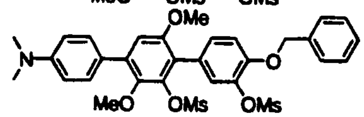

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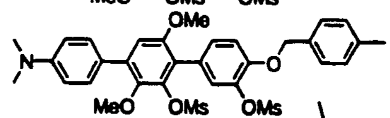

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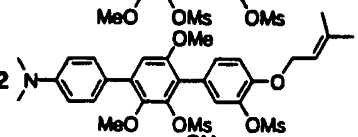

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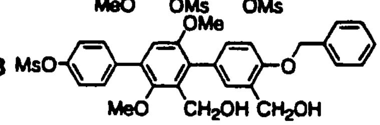

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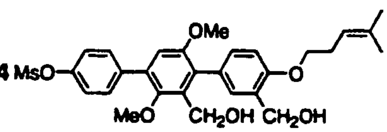

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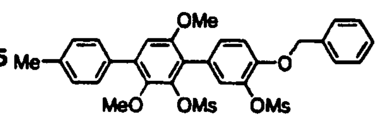

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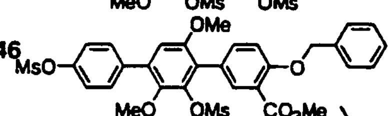

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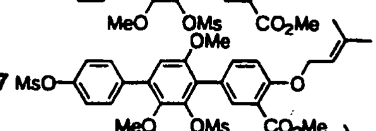

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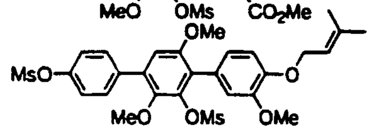

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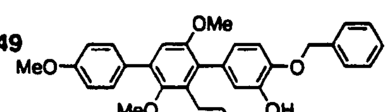

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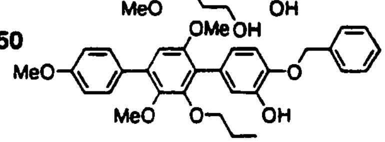

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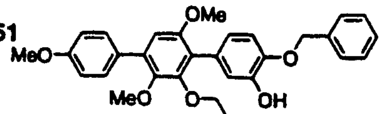

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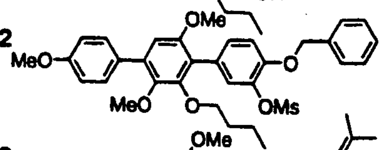

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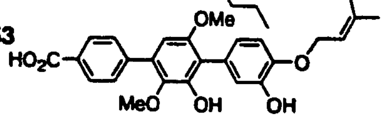

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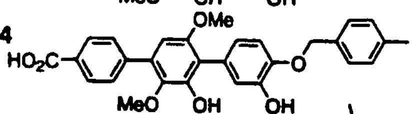

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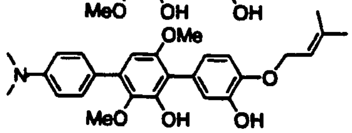

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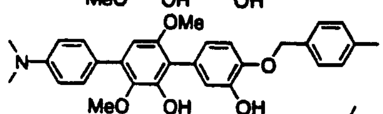

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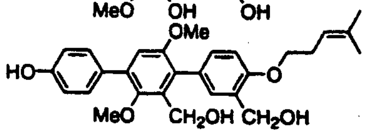

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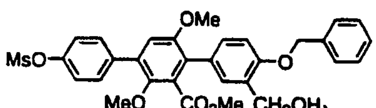

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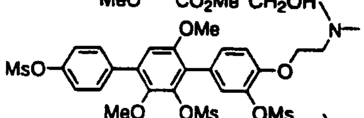

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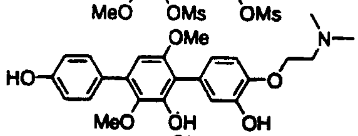

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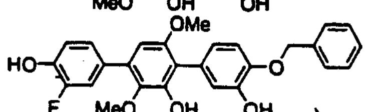

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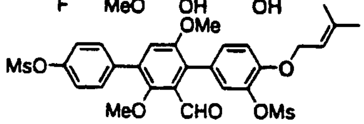

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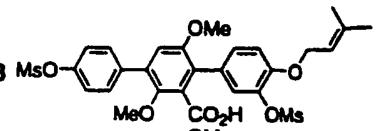

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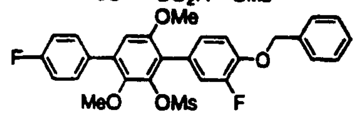

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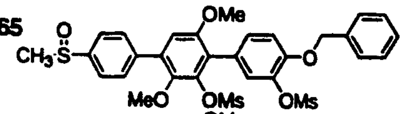

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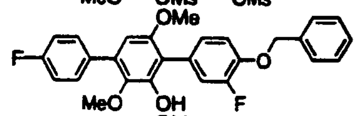

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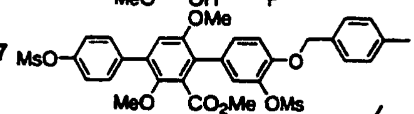

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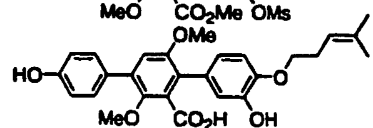

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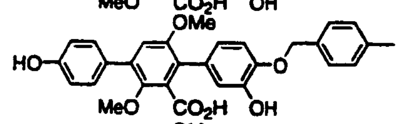

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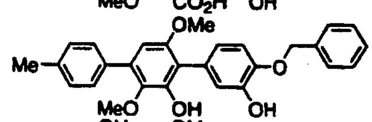

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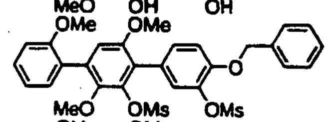

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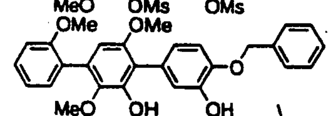

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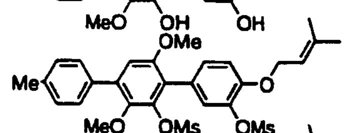

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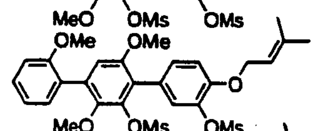

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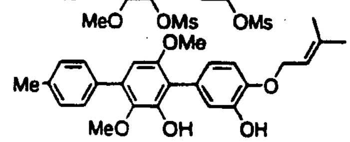

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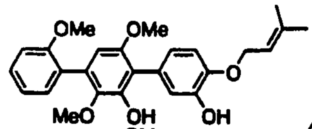

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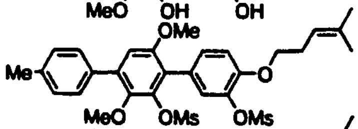

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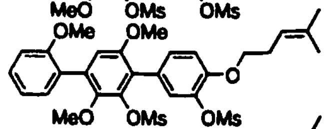

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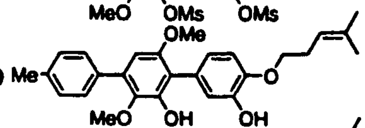

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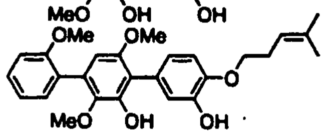

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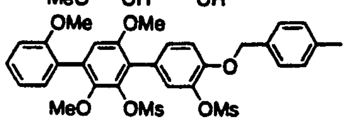

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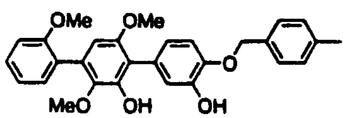

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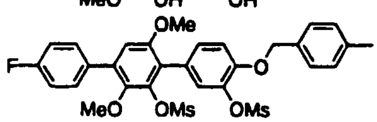

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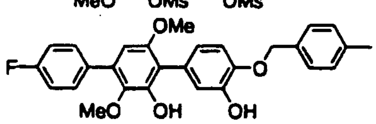

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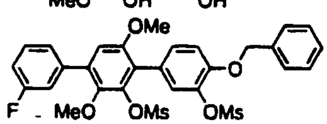

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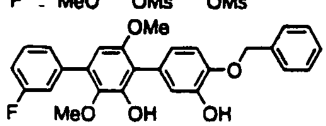

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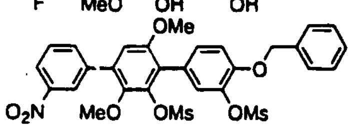

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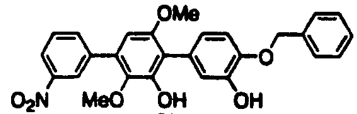

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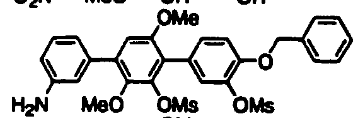

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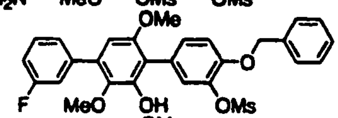

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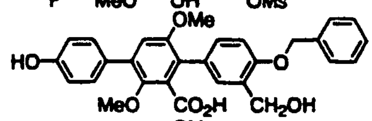

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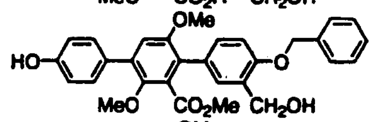

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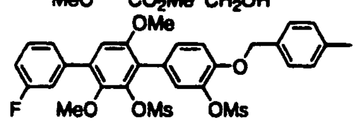

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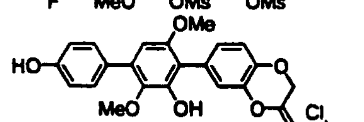

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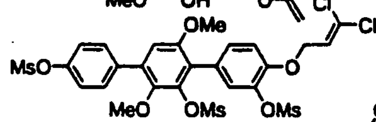

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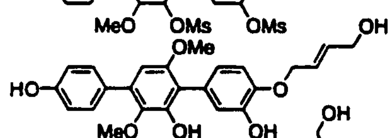

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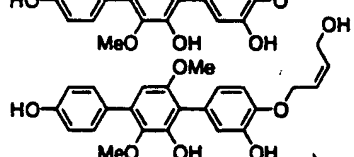

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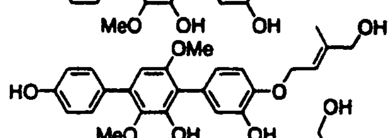

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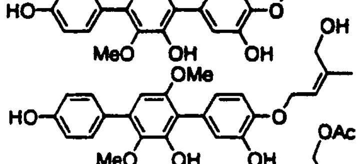

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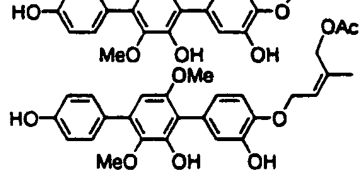
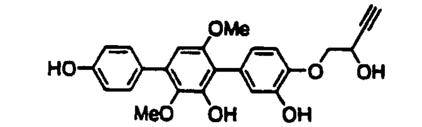
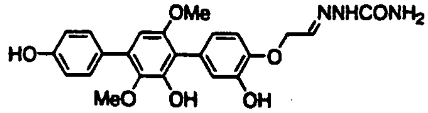
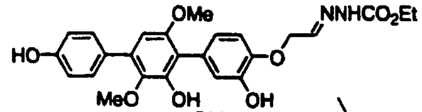
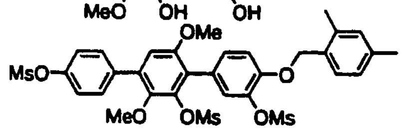
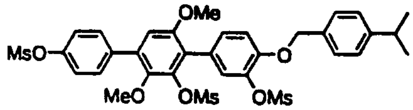


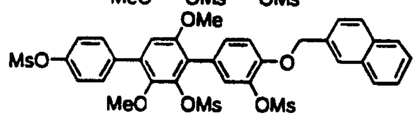
I-301 

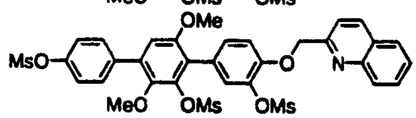
I-302 

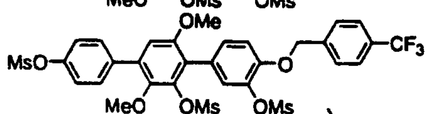
I-303 

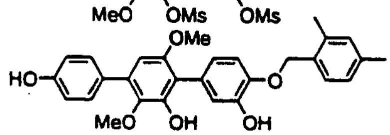
I-304 

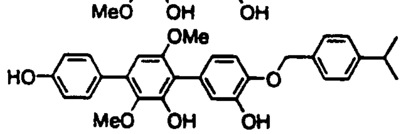
I-305 

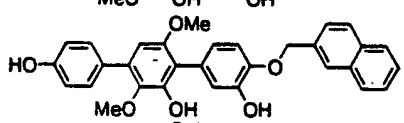
I-306 

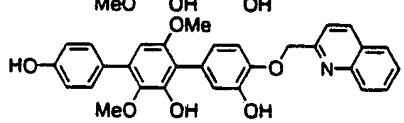
I-307 

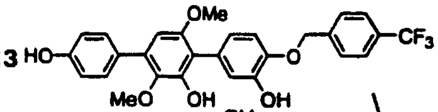
I-308 

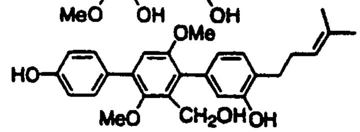
I-309 

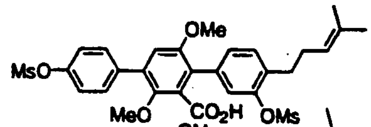
I-310 

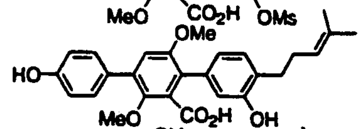
I-311 

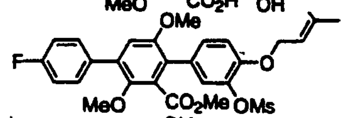
I-312 

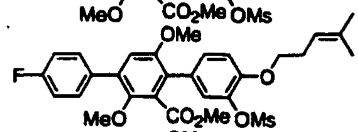
I-313 

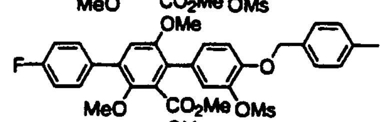
I-314 

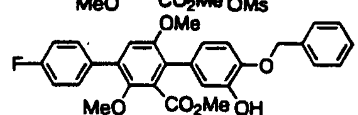
I-315 

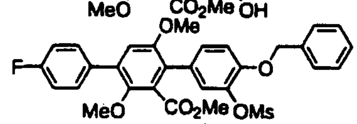
I-316 

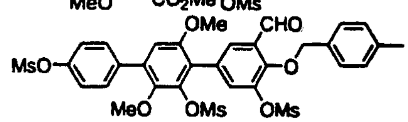
I-317 

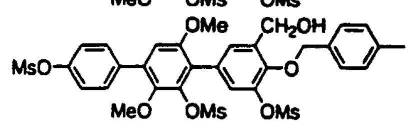
I-318 

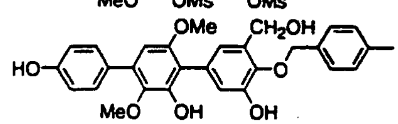
I-319 

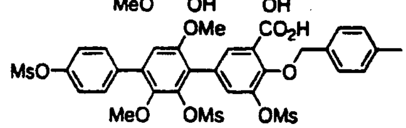
I-320 

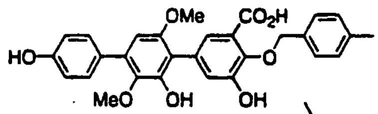
I-321 

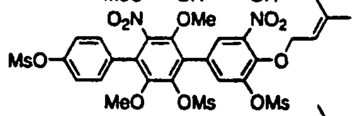
I-322 

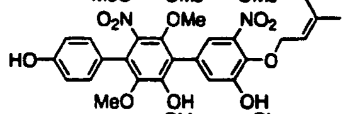
I-323 

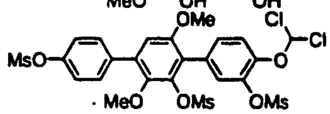
I-324 

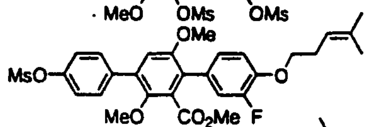
I-325 

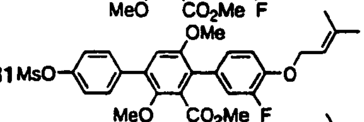
I-326 

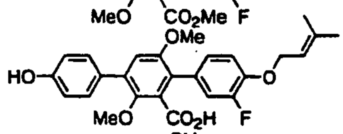
I-327 

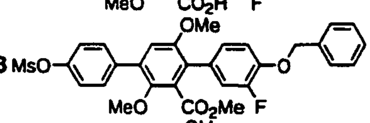
I-328 

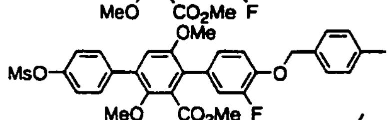
I-329 

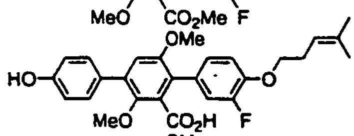
I-330 

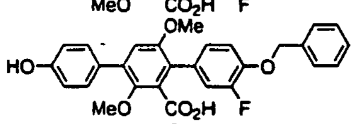
I-331 

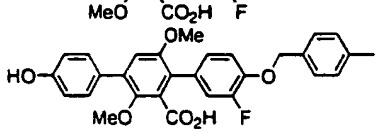
I-332 

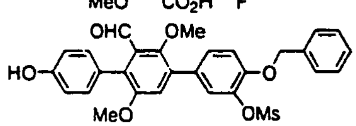
I-333 

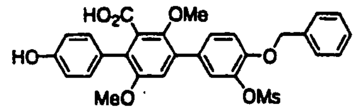
I-334 

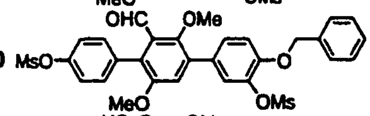
I-335 

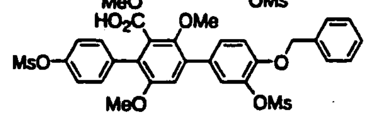
I-336 

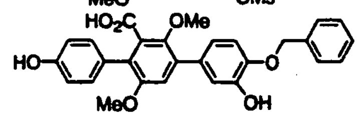
I-337 

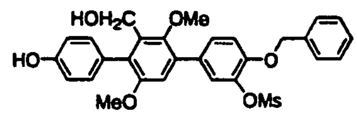
I-338 

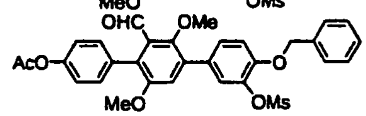
I-339 

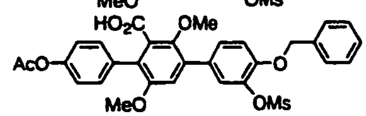
I-340 

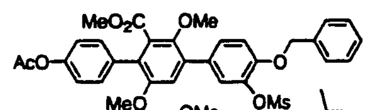
I-341 

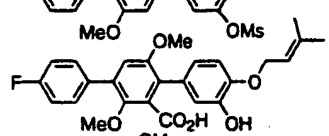
I-342 

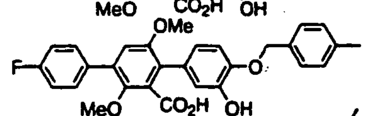
I-343 

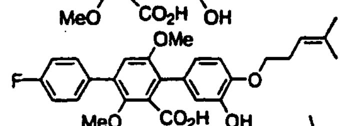
I-344 

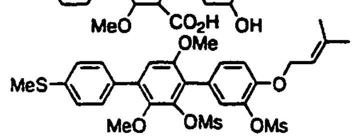
I-345 

I-346 

I-347 

I-348 

I-349 

I-350 

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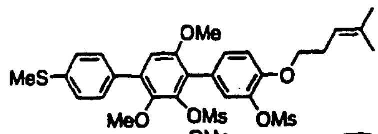

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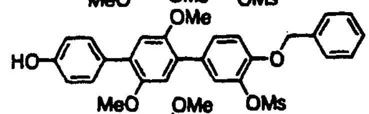

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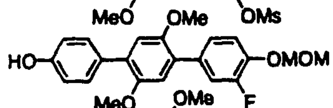

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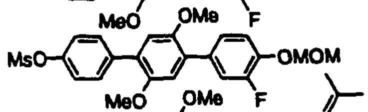

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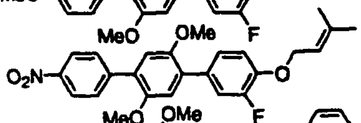

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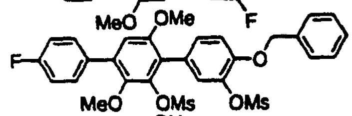

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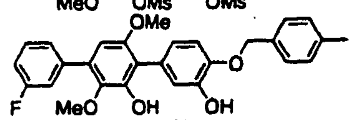

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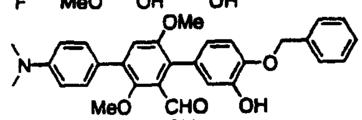

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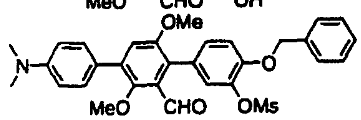

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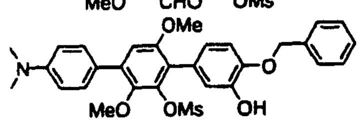

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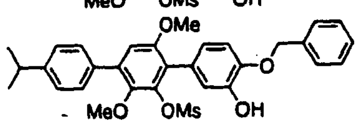

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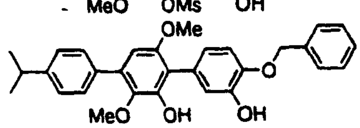

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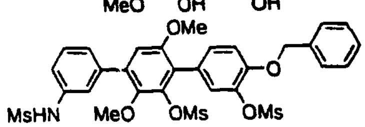

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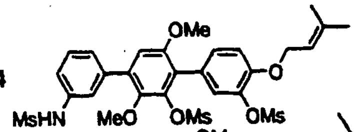

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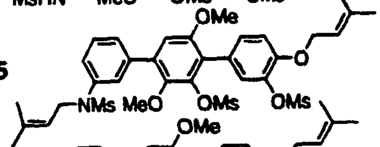

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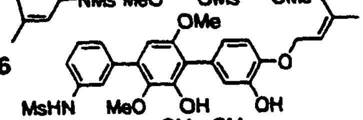

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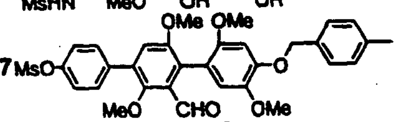

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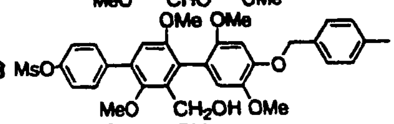

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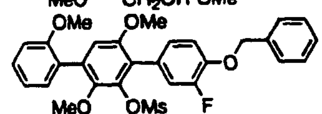

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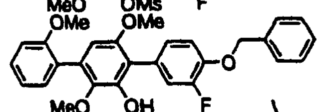

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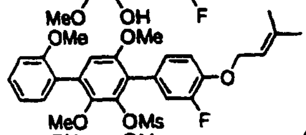

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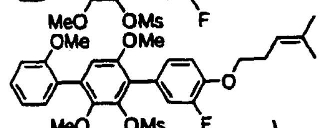

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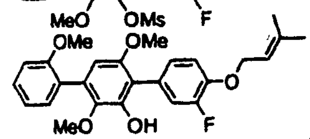

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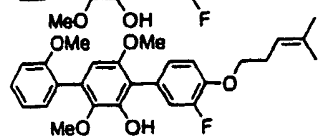

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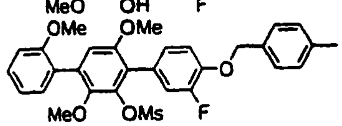

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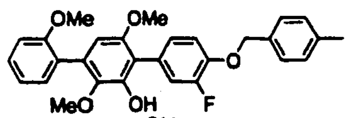

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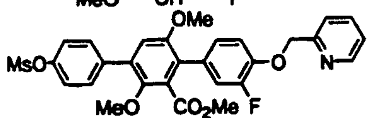

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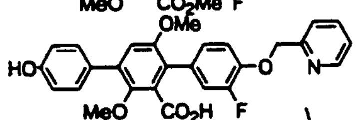

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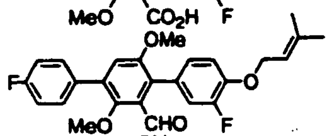

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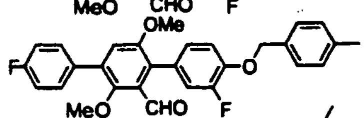

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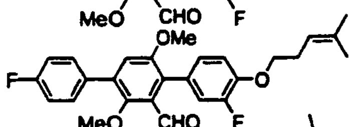

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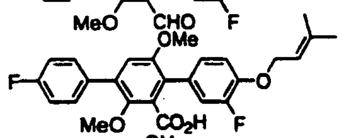

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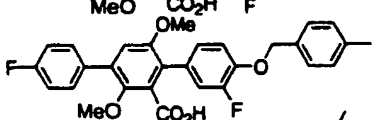

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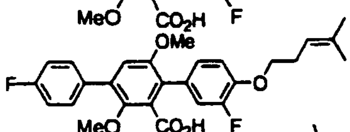

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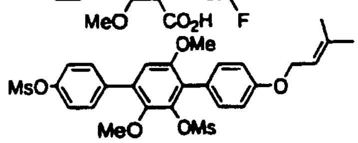

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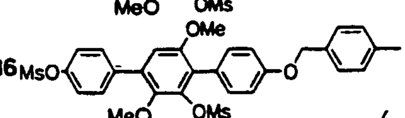

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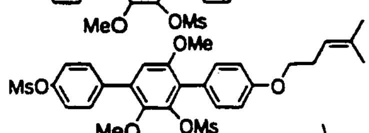

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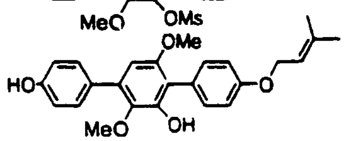

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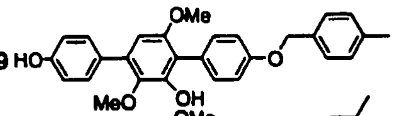

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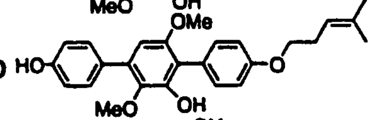

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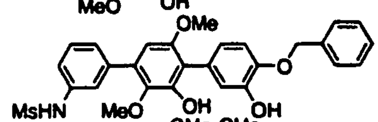

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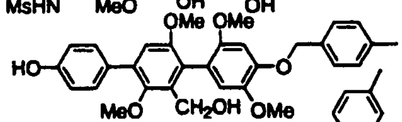

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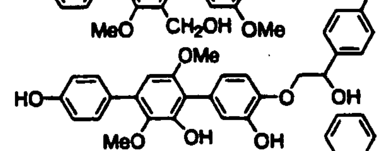

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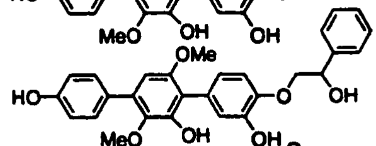

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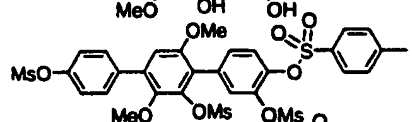

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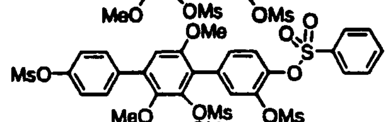

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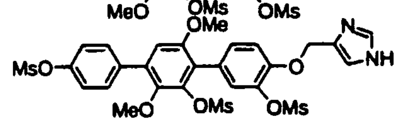

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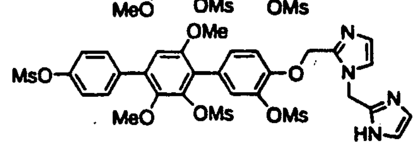

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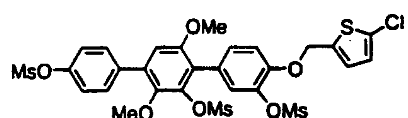

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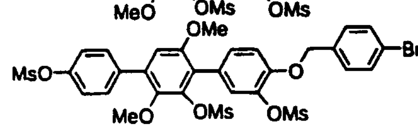
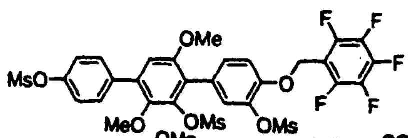
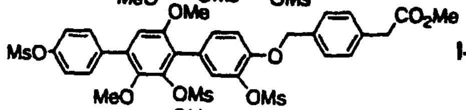
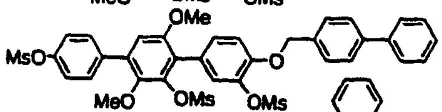
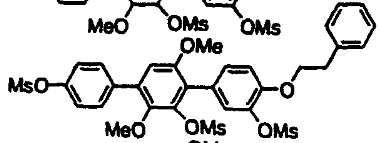
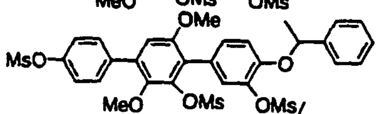


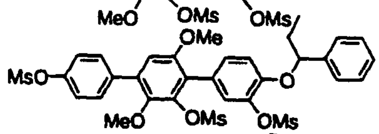
I-401 

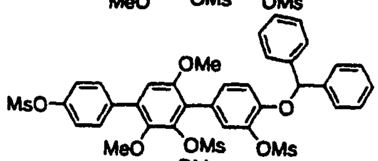
I-402 

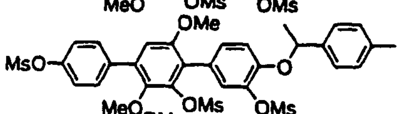
I-403 

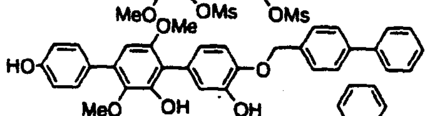
I-404 

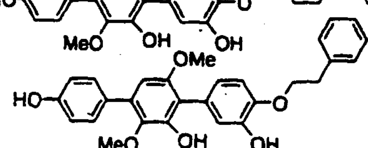
I-405 

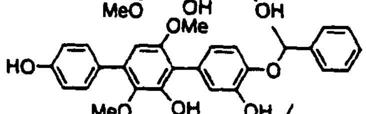
I-406 

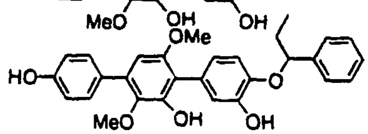
I-407 

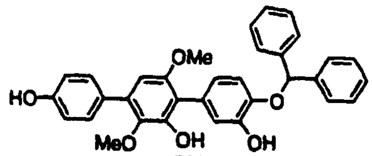
I-408 

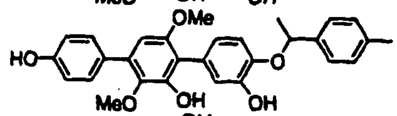
I-409 

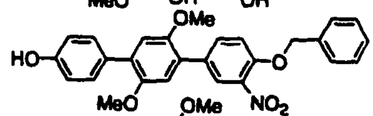
I-410 

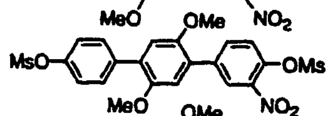
I-411 

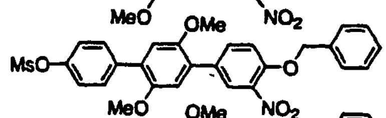
I-412 

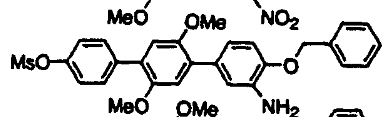
I-413 

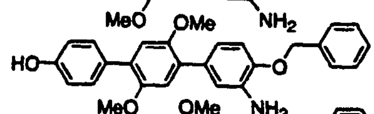
I-414 

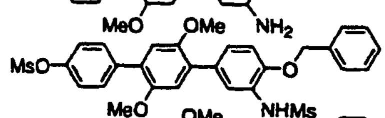
I-415 

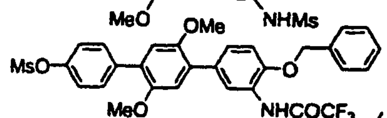
I-416 

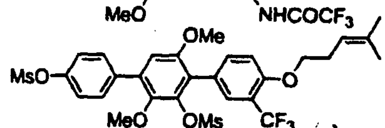
I-417 

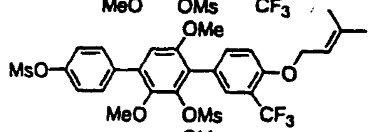
I-418 

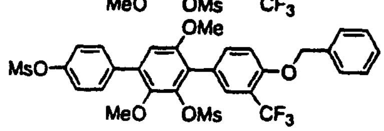
I-419 

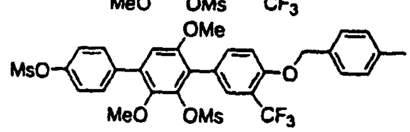
I-420 

I-421 

I-422 

I-423 

I-424 

I-425 

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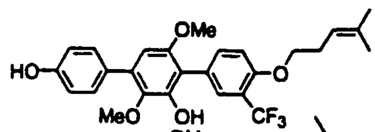

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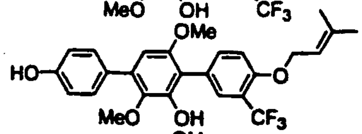

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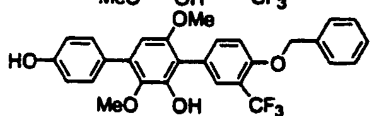

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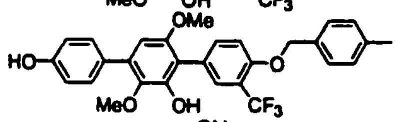

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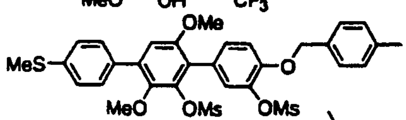

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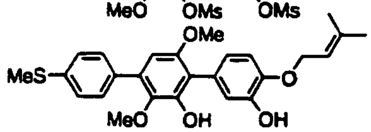

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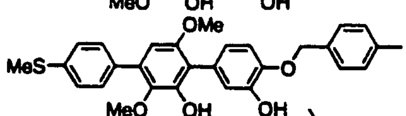

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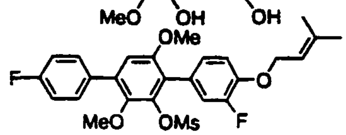

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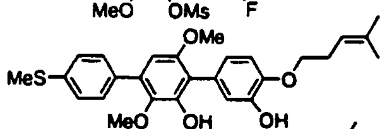

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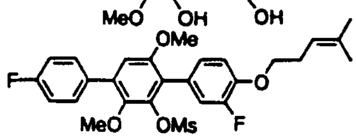

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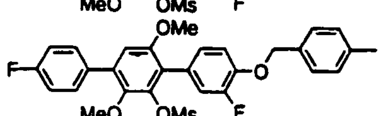

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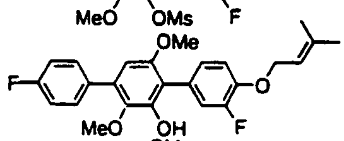

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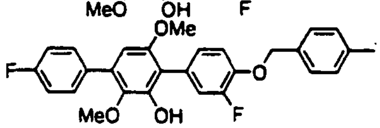

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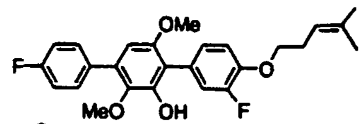

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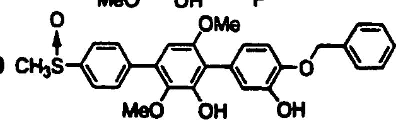

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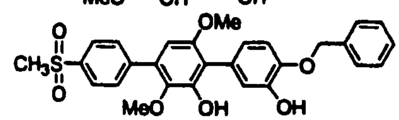

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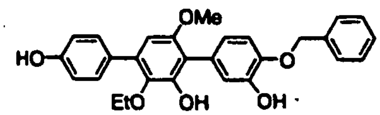

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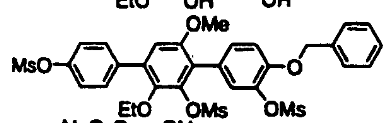

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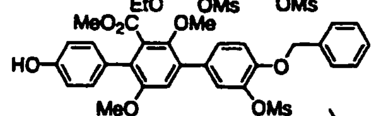

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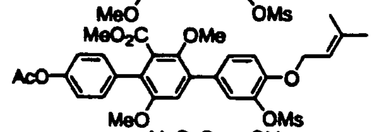

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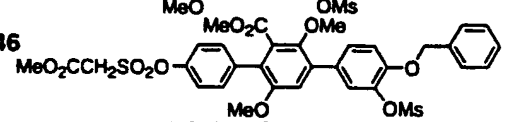

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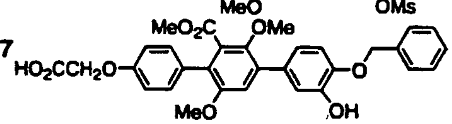

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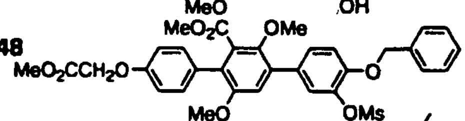

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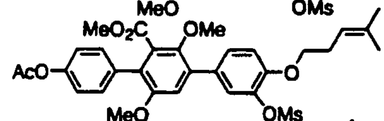

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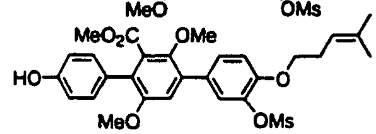

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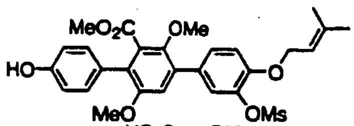

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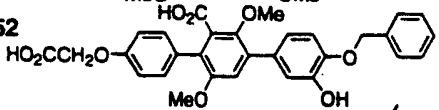

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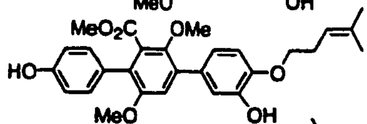

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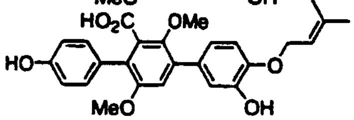

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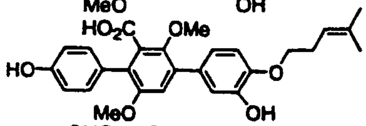

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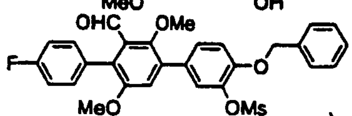

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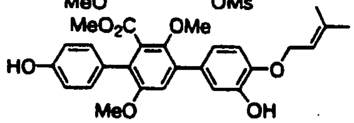

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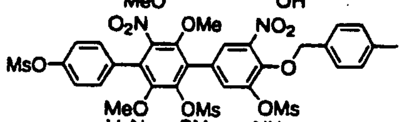

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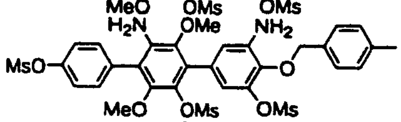

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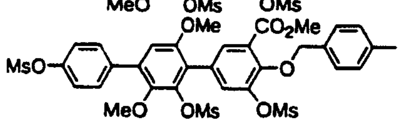

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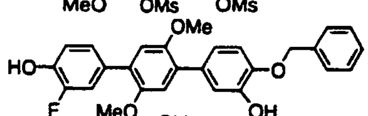

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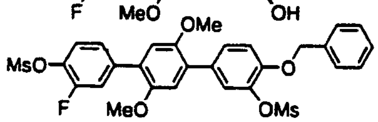

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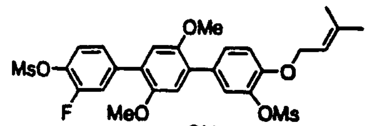

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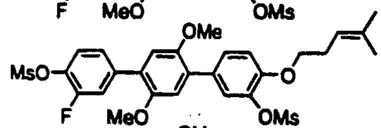

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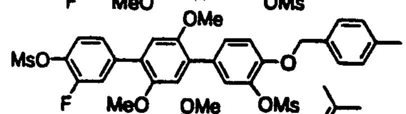

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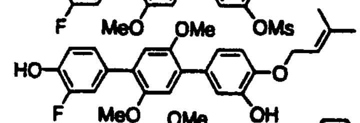

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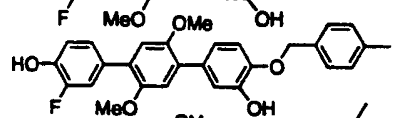

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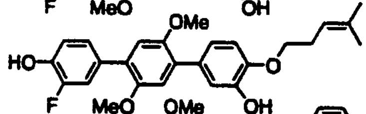

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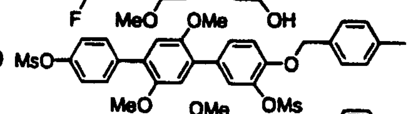

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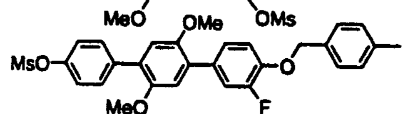

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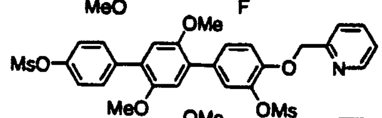

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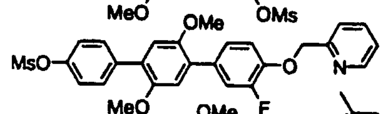

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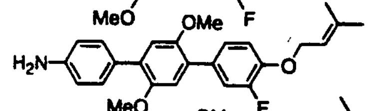

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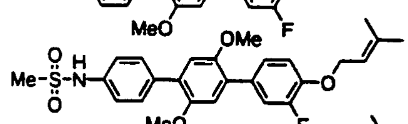

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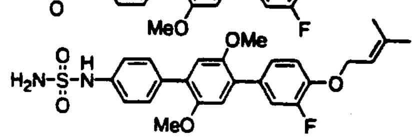

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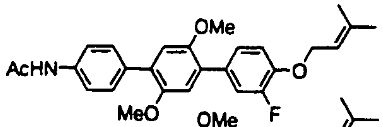

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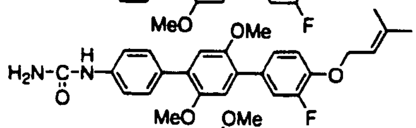

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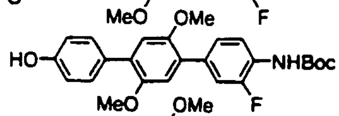

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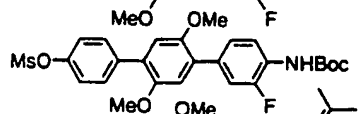

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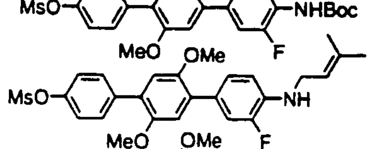

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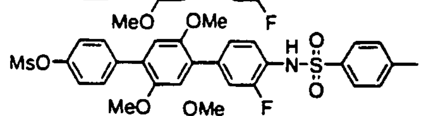

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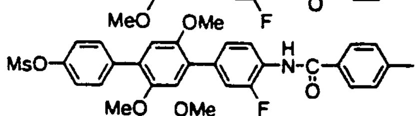

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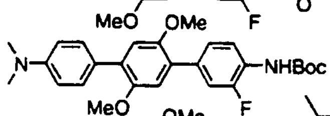

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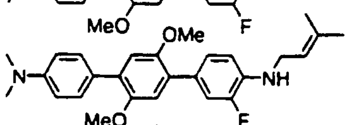

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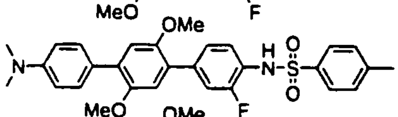

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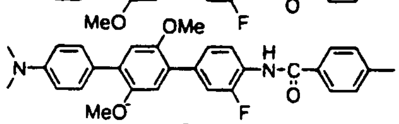

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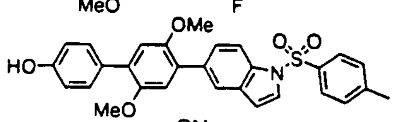

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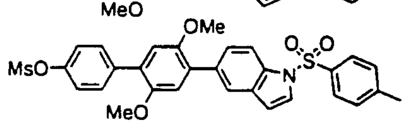

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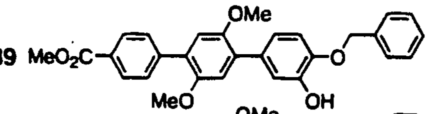

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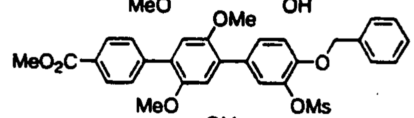

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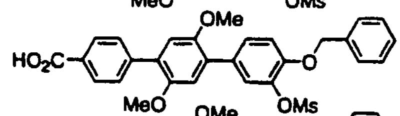

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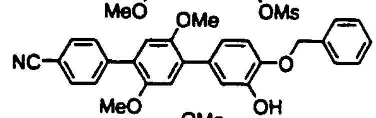

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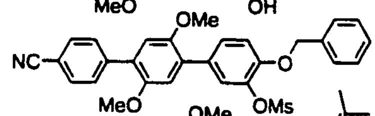

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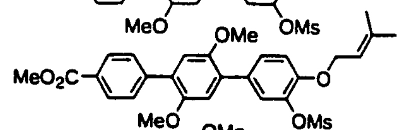

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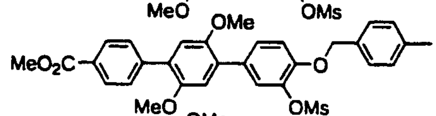

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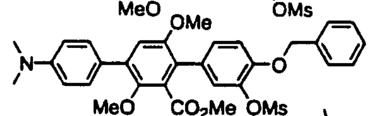

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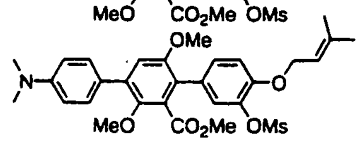

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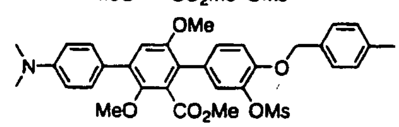

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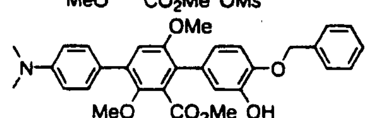

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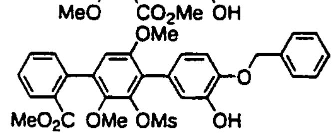
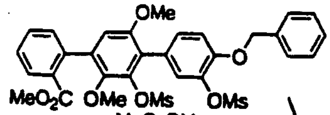
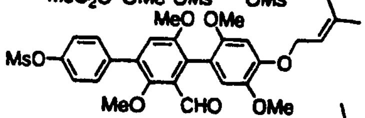
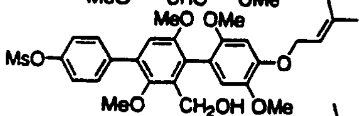
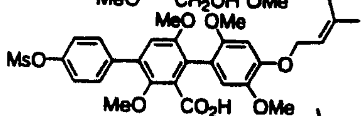
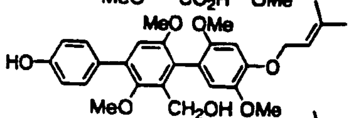


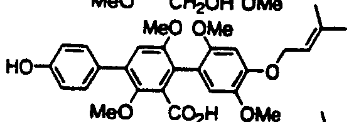
I-501 

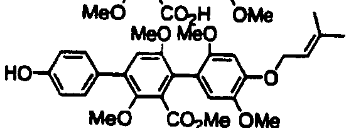
I-502 

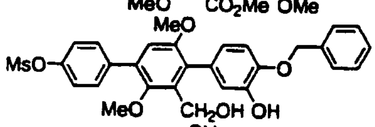
I-503 

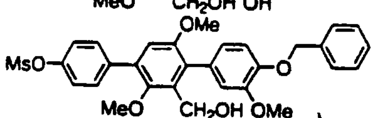
I-504 

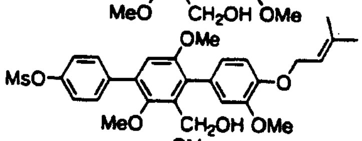
I-505 

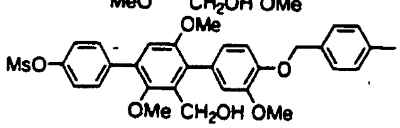
I-506 

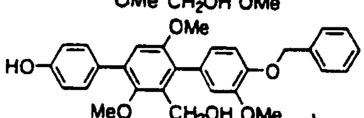
I-507 

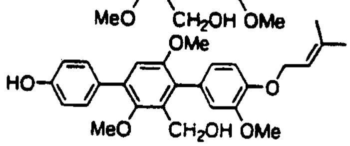
I-508 

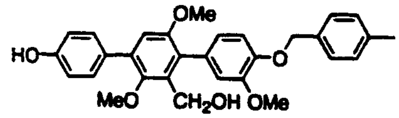
I-509 

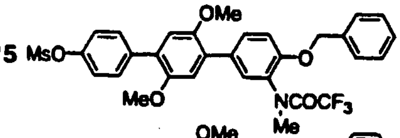
I-510 

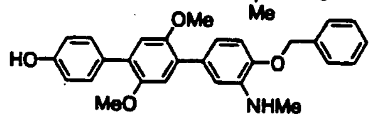
I-511 

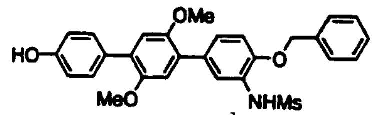
I-512 

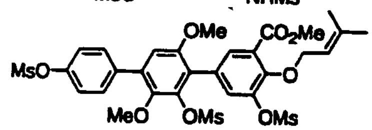
I-513 

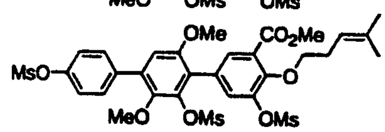
I-514 

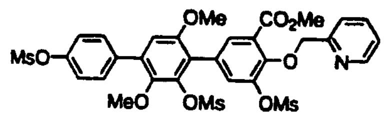
I-515 

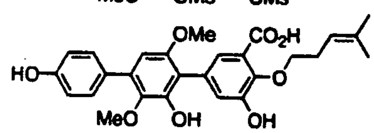
I-516 

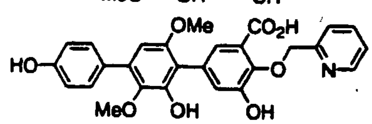
I-517 

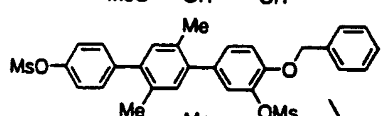
I-518 

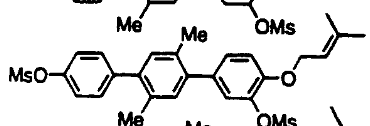
I-519 

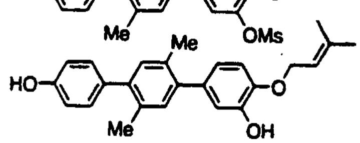
I-520 

I-521 

I-522 

I-523 

I-524 

I-525 

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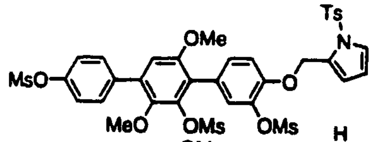

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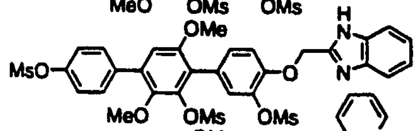

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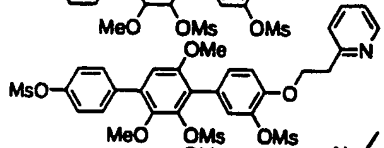

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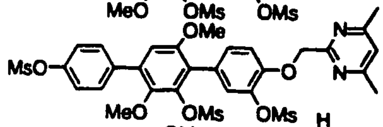

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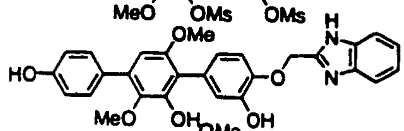

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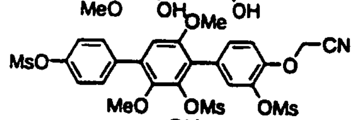

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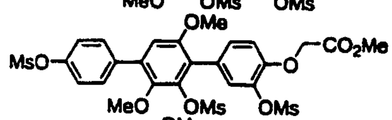

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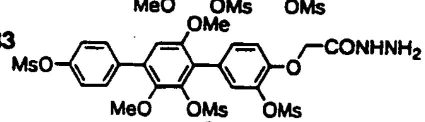

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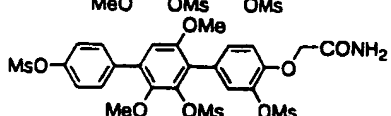

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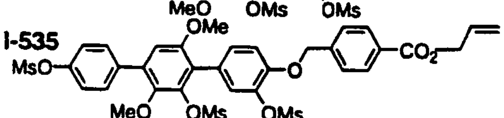

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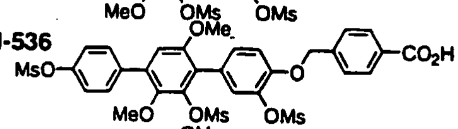

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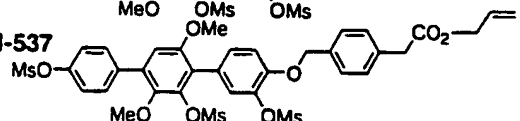

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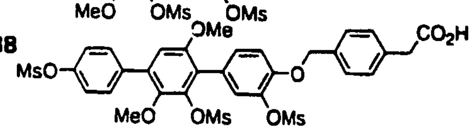

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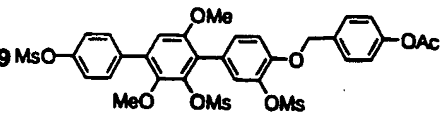

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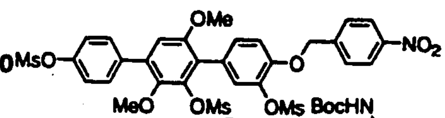

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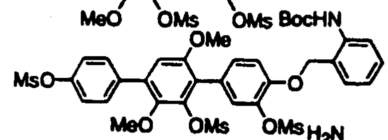

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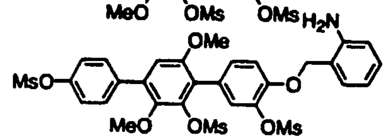

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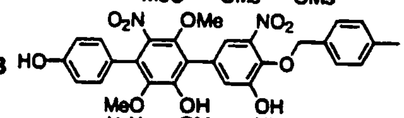

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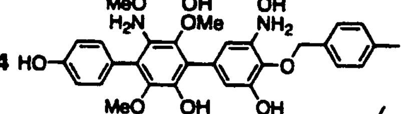

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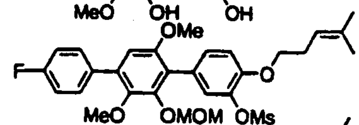

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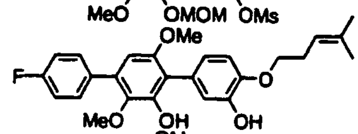

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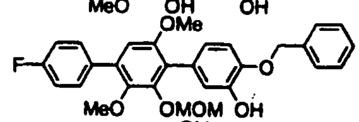

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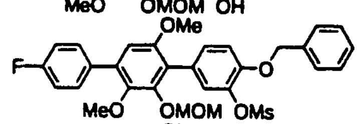

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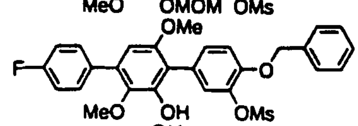

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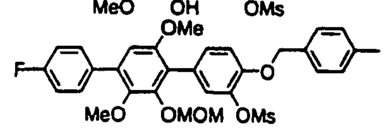
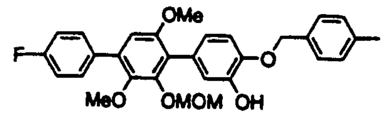
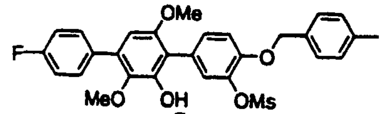
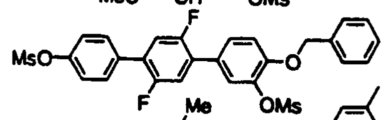
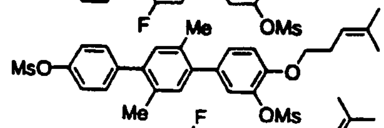
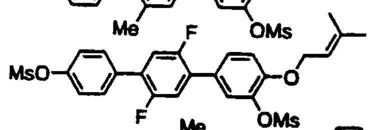


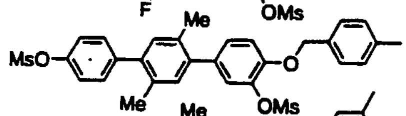
I-551 

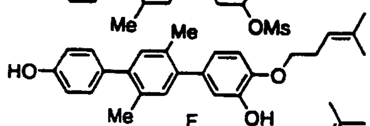
I-552 

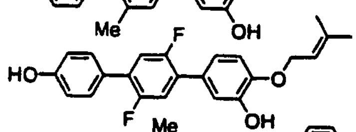
I-553 

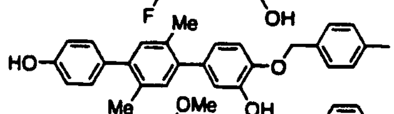
I-554 

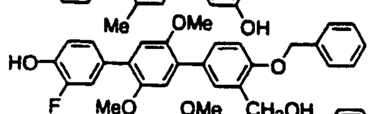
I-555 

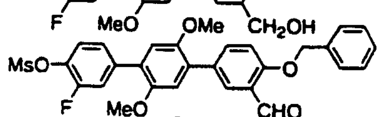
I-556 

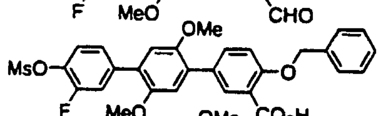
I-557 

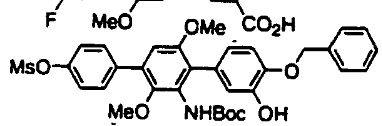
I-558 

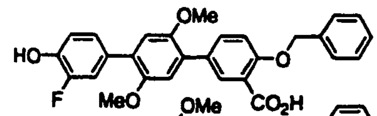
I-559 

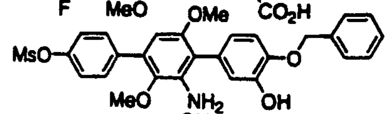
I-560 

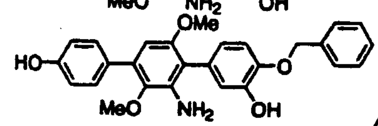
I-561 

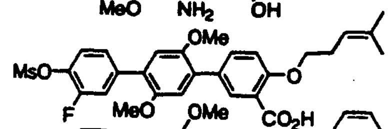
I-562 

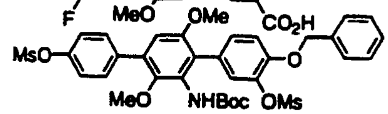
I-563 

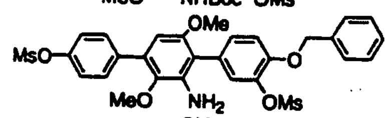
I-564 

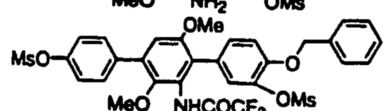
I-565 

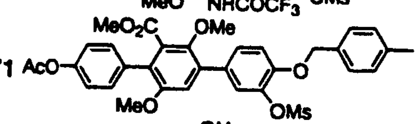
I-566 

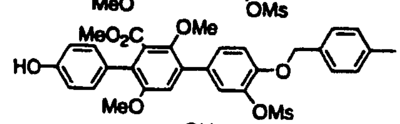
I-567 

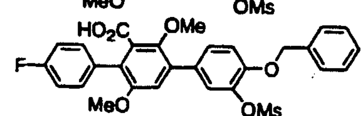
I-568 

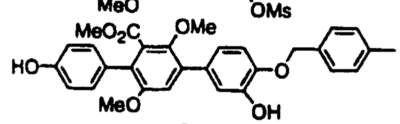
I-539 

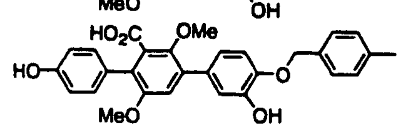
I-570 

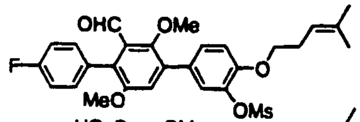
I-571 

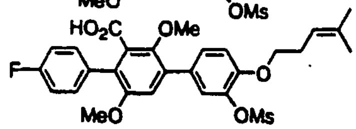
I-572 

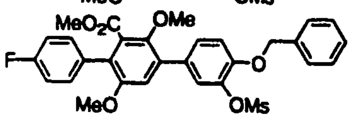
I-573 

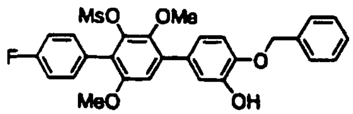
I-574 

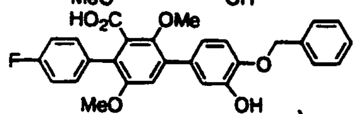
I-575 

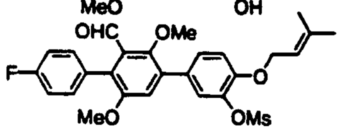
I-576 

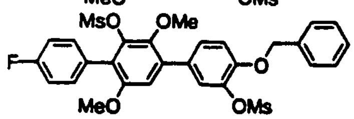
I-577 

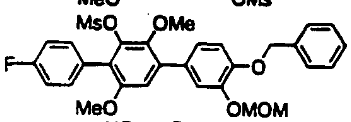
I-578 

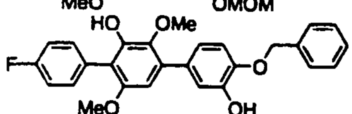
I-579 

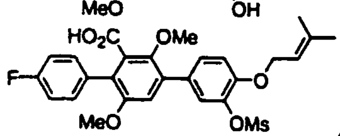
I-580 

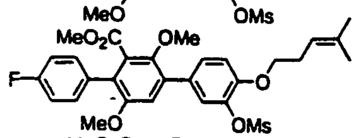
I-581 

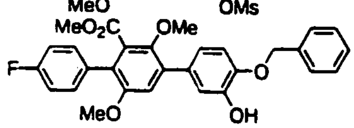
I-582 

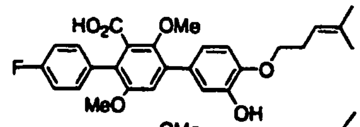
I-583 

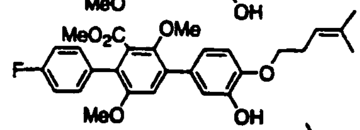
I-584 

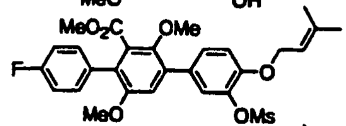
I-585 

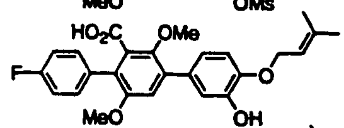
I-586 

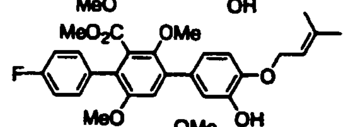
I-587 

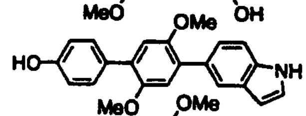
I-588 

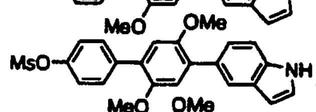
I-589 

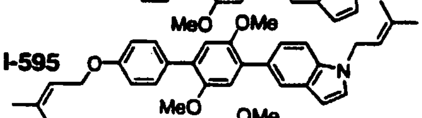
I-590 

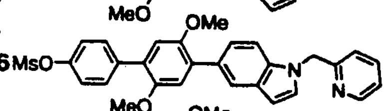
I-591 

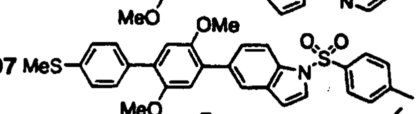
I-592 

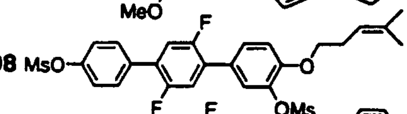
I-593 

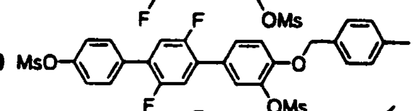
I-594 

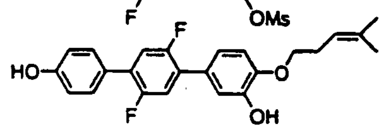
I-595 

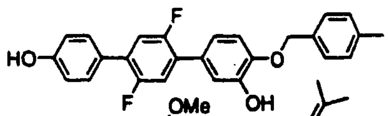
I-596 

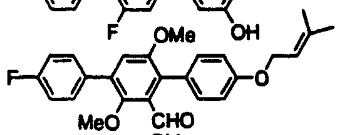
I-597 

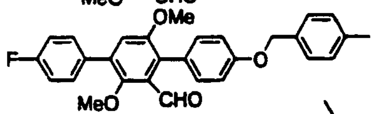
I-598 

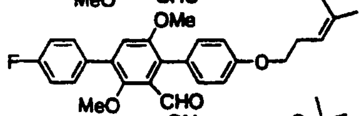
I-599 

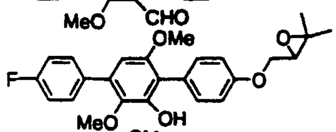
I-600 

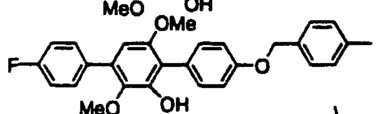
I-601 

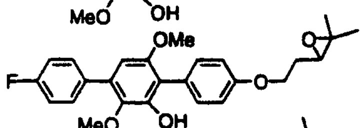
I-602 

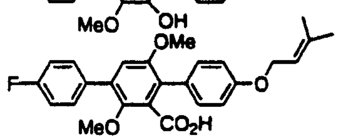
I-603 

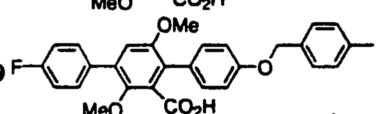
I-604 

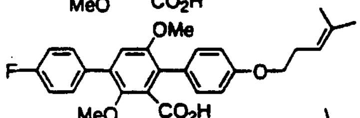
I-605 

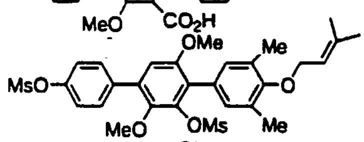
I-606 

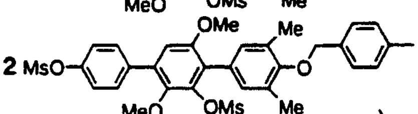
I-607 

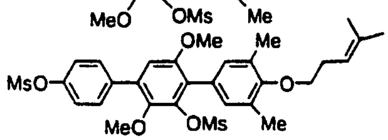
I-608 

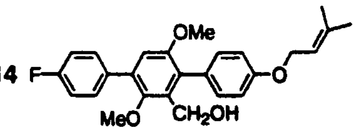
I-609 

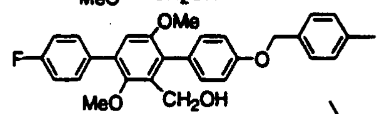
I-610 

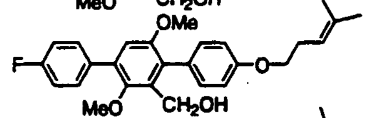
I-611 

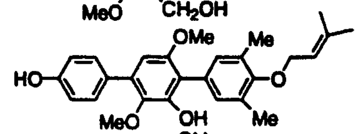
I-612 

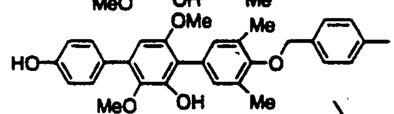
I-613 

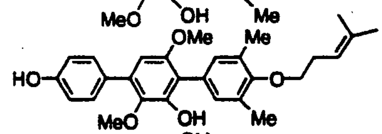
I-614 

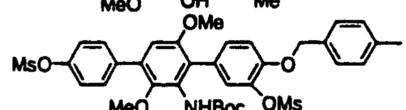
I-615 

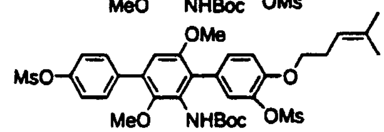
I-616 

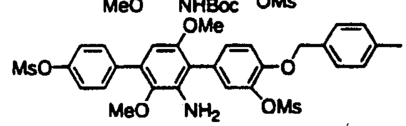
I-617 

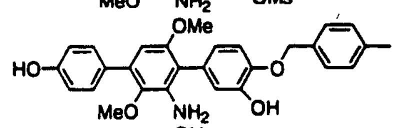
I-618 

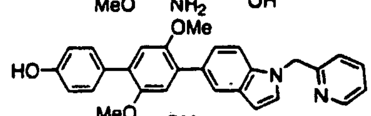
I-619 

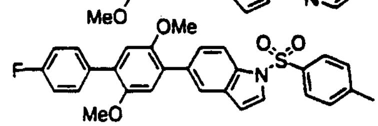
I-620 

I-621 

I-622 

I-623 

I-624 

I-625 

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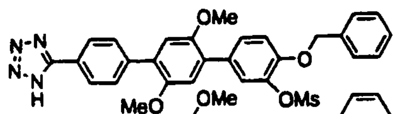

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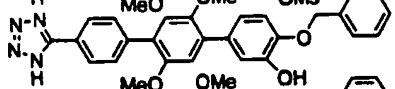

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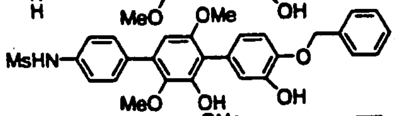

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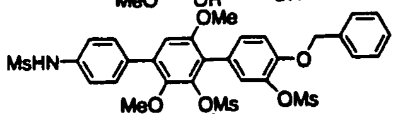

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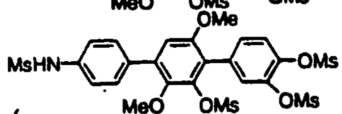

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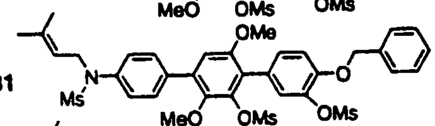

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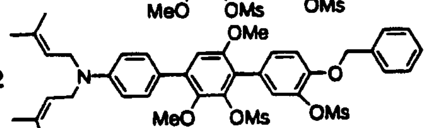

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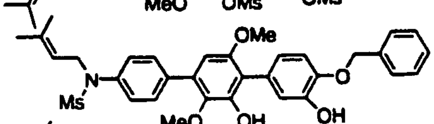

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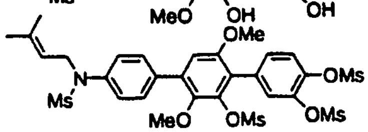

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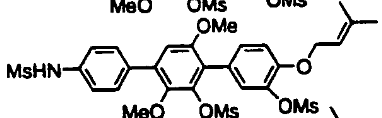

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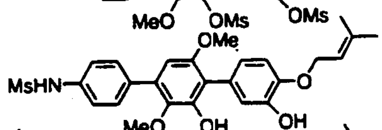

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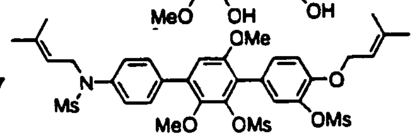

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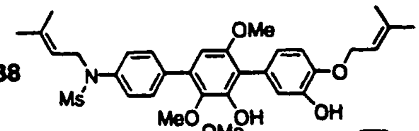

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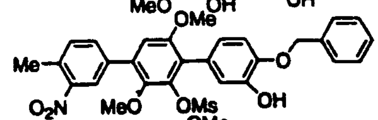

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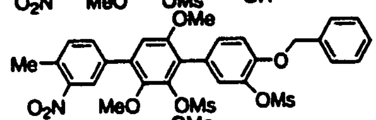

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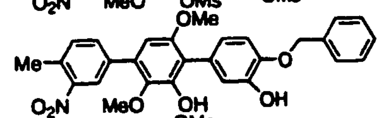

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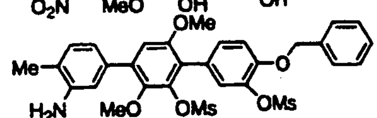

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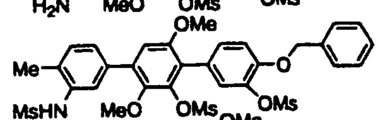

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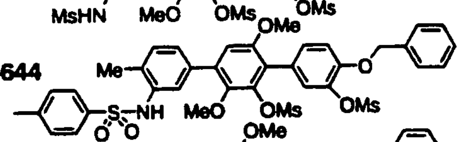

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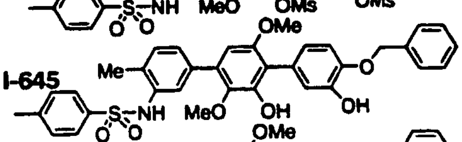

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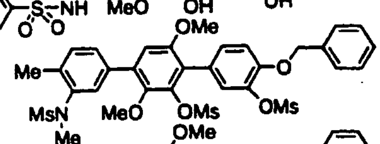

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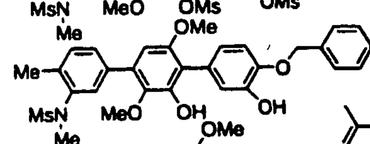

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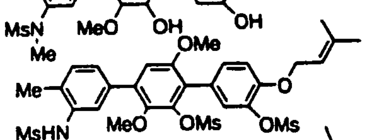

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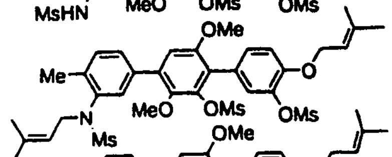

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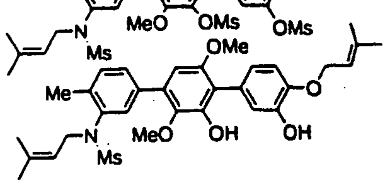

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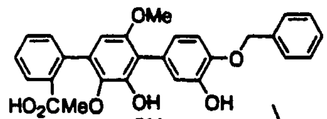

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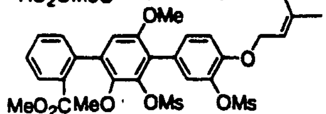

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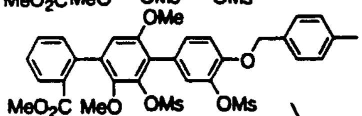

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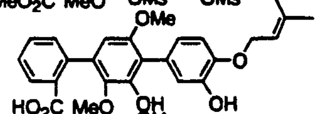

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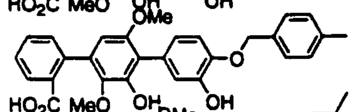

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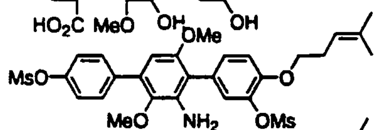

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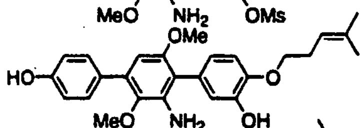

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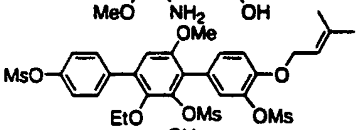

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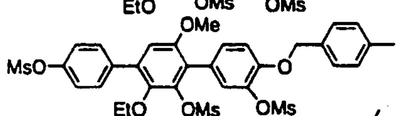

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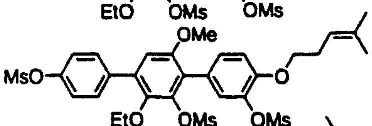

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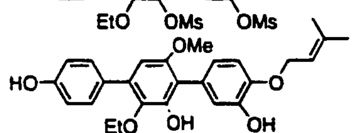

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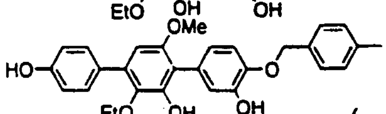

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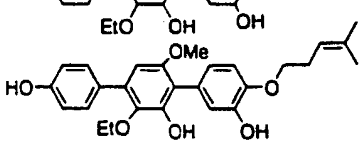

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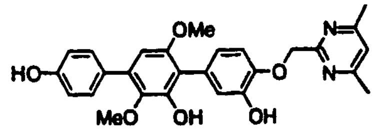

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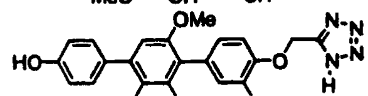

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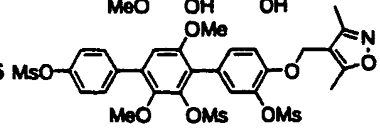

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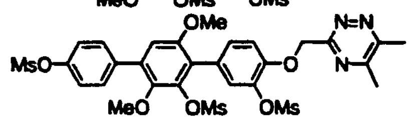

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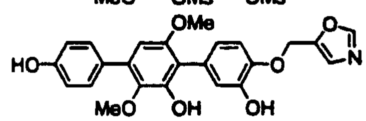

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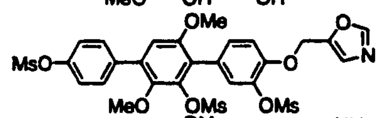

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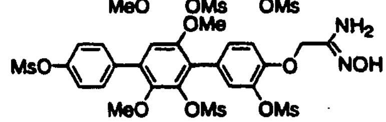

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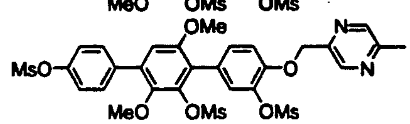

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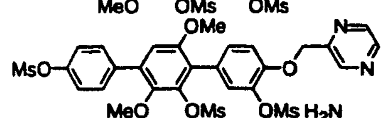

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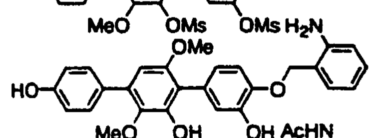

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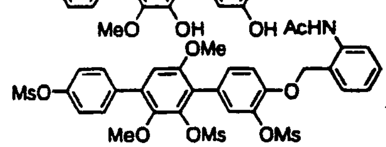

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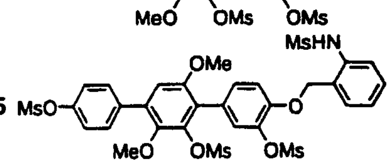

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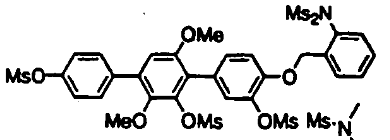

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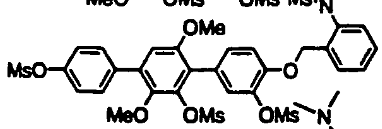

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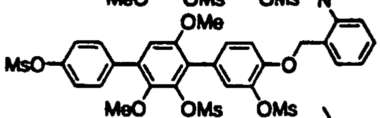

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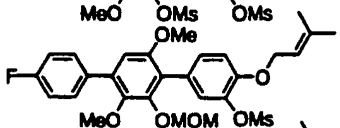

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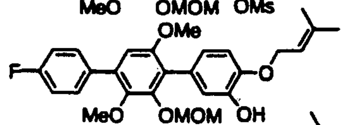

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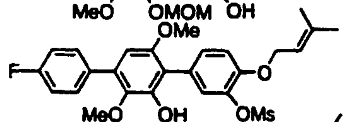

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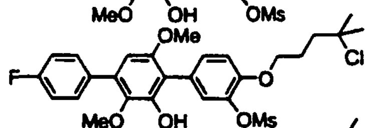

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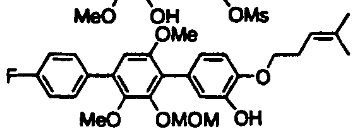

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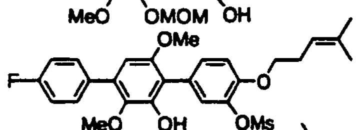

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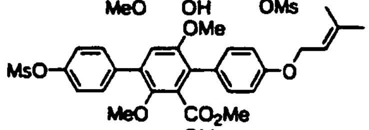

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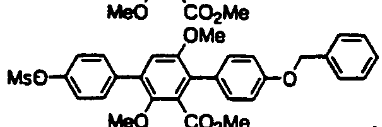

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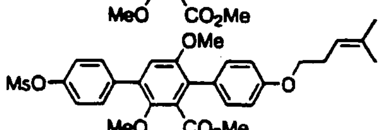

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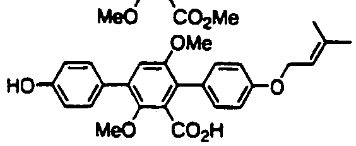

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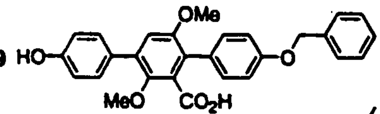

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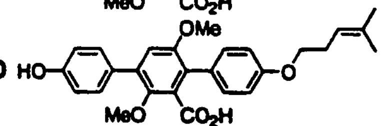

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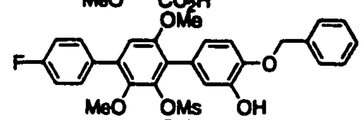

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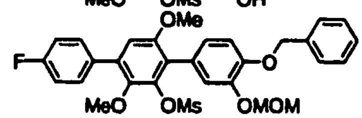

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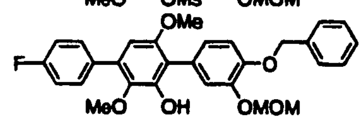

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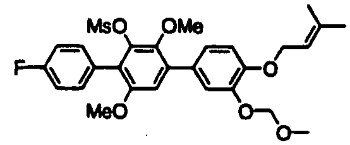

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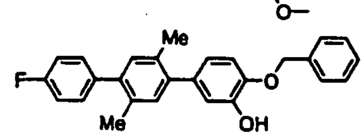

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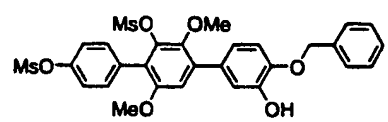

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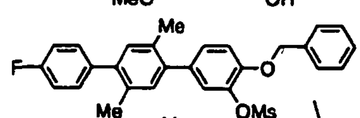

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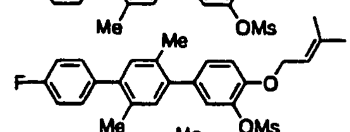

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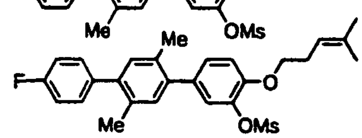

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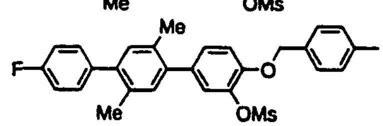
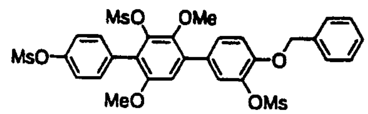
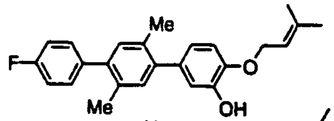
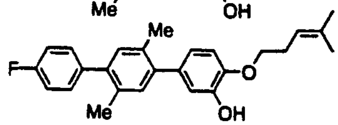
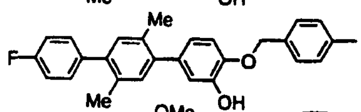
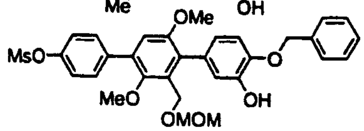


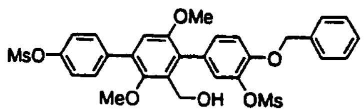
I-701 

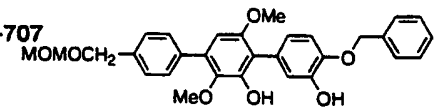
I-702 

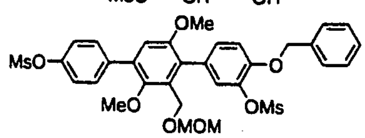
I-703 

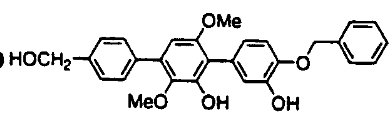
I-704 

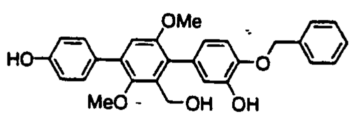
I-705 

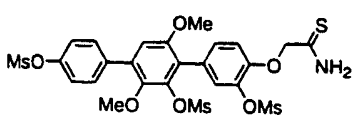
I-706 

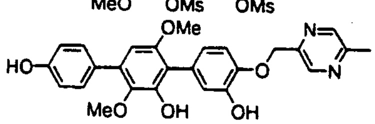
I-707 

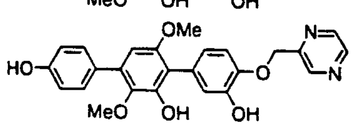
I-708 

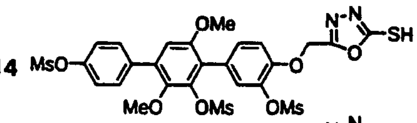
I-709 

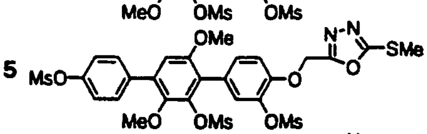
I-710 

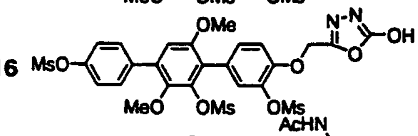
I-711 

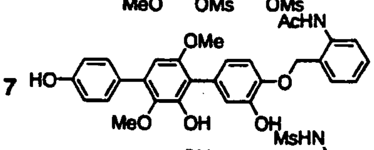
I-712 

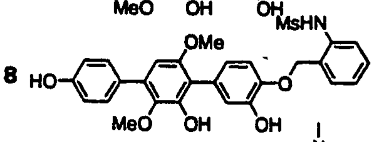
I-713 

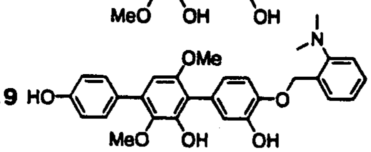
I-714 

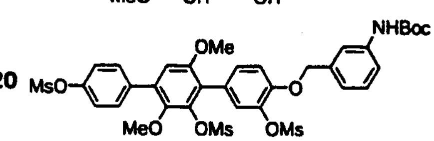
I-715 

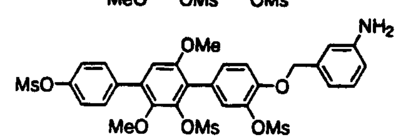
I-716 

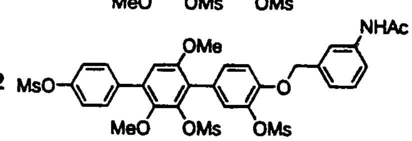
I-717 

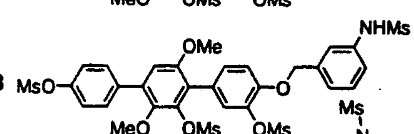
I-718 

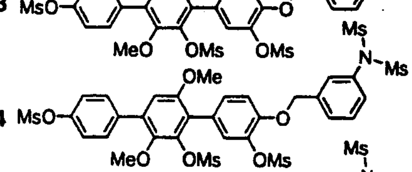
I-719 

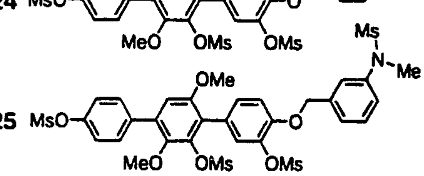
I-720 

I-721 

I-722 

I-723 

I-724 

I-725 

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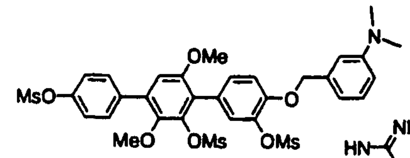

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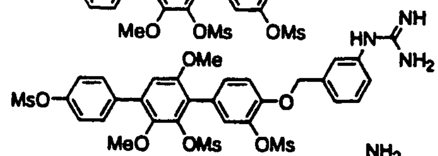

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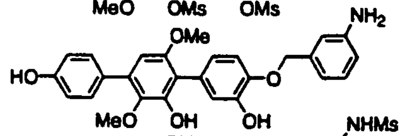

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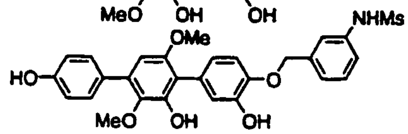

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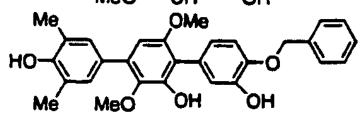

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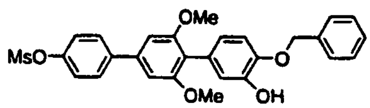

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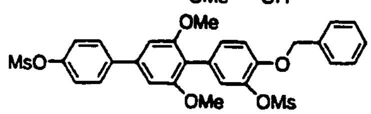

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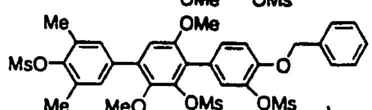

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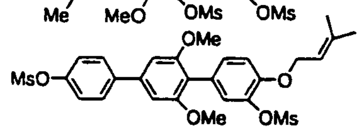

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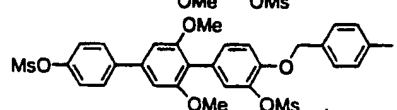

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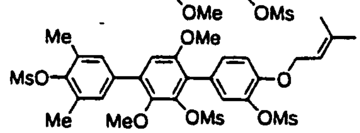

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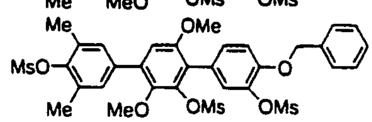

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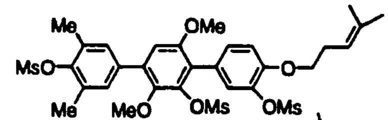

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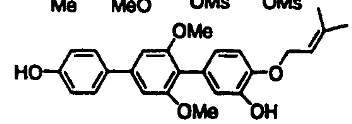

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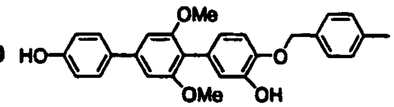

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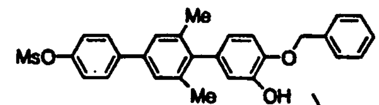

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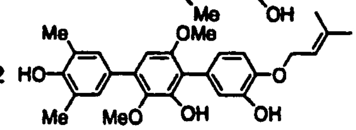

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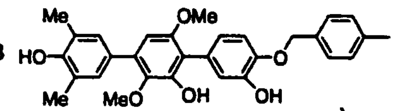

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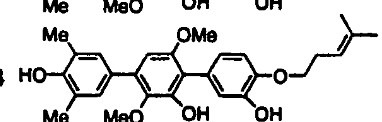

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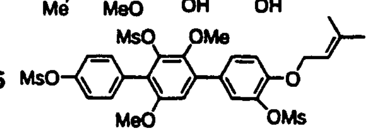

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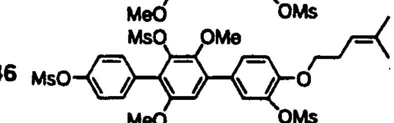

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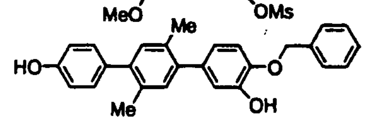

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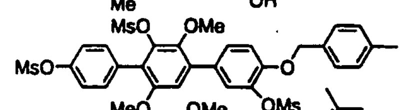

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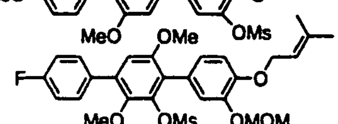

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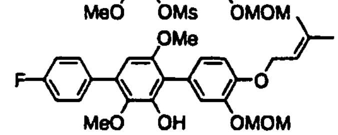
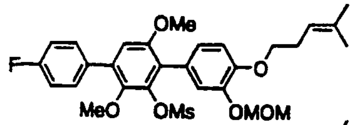
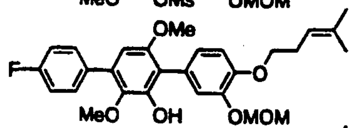
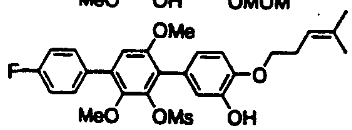
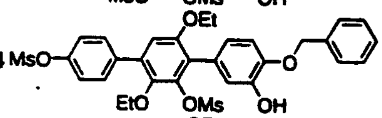
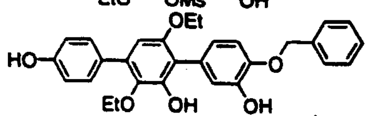


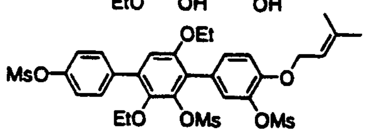
I-751 

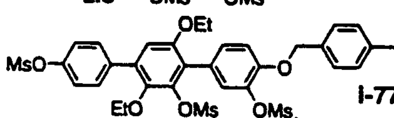
I-752 

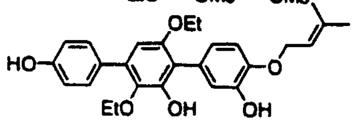
I-753 

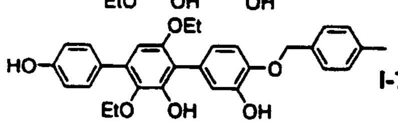
I-754 

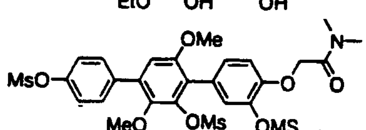
I-755 

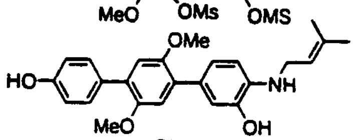
I-756 

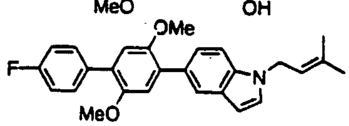
I-757 

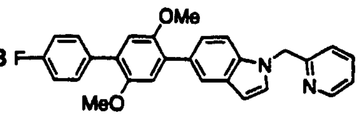
I-758 

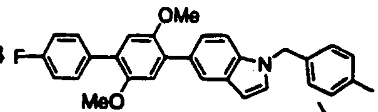
I-759 

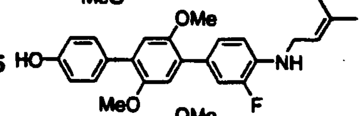
I-760 

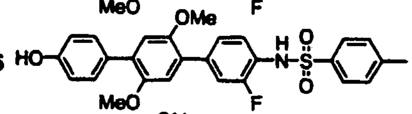
I-761 

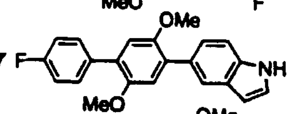
I-762 

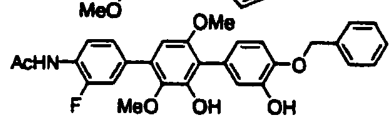
I-763 

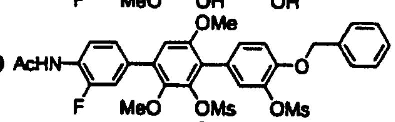
I-764 

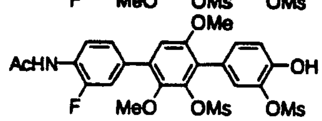
I-765 

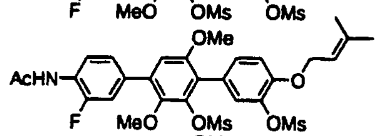
I-766 

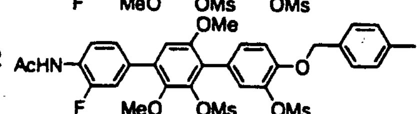
I-767 

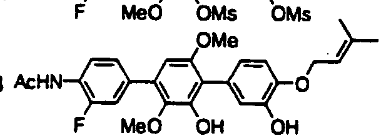
I-768 

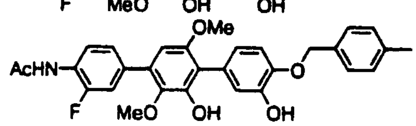
I-769 

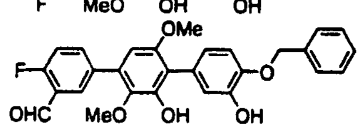
I-770 

I-771 

I-772 

I-773 

I-774 

I-775 

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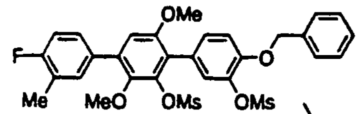

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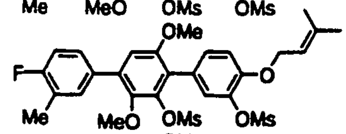

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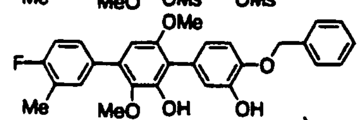

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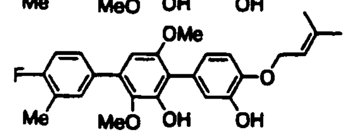

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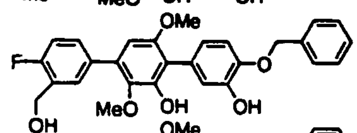

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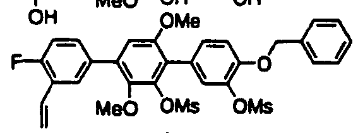

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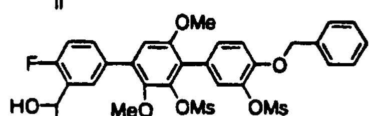

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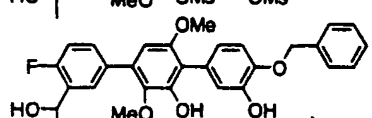

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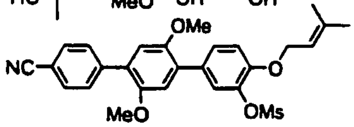

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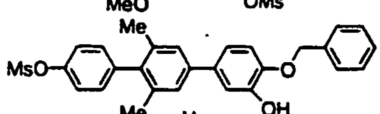

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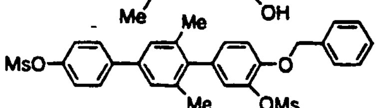

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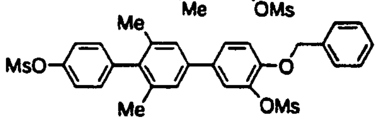

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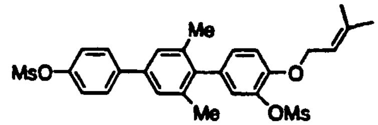

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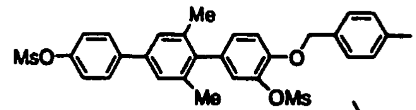

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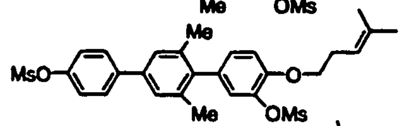

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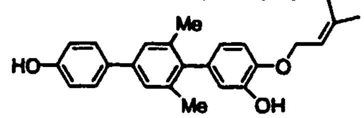

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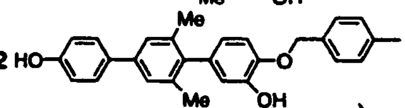

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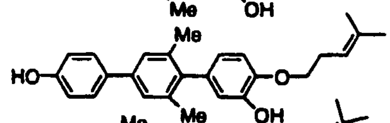

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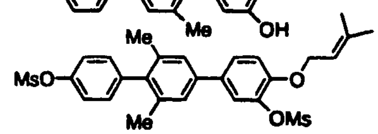

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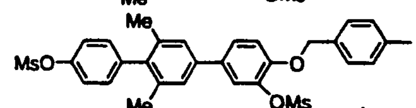

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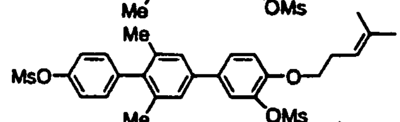

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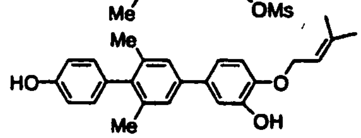

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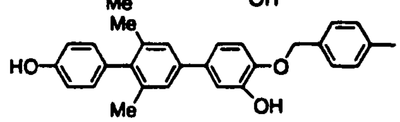

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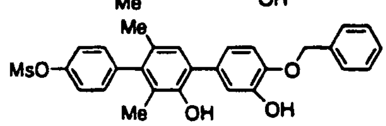

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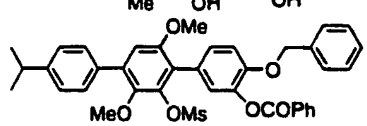

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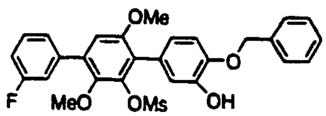

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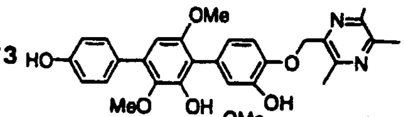

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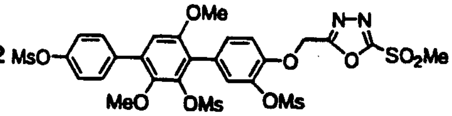

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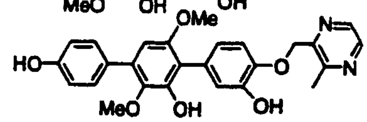

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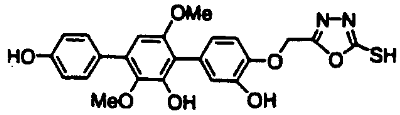

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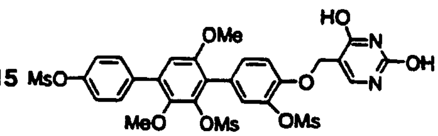

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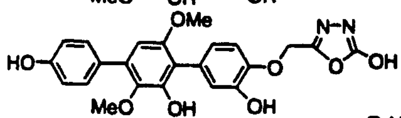

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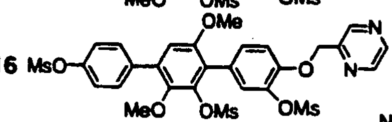

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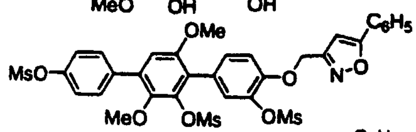

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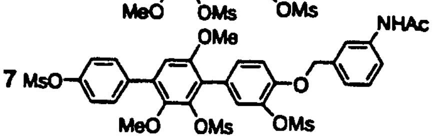

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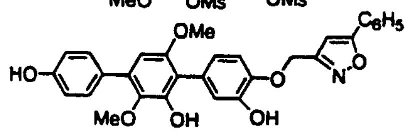

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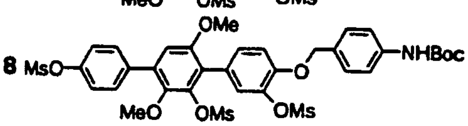

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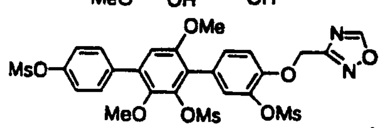

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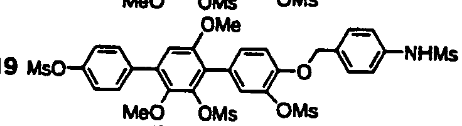

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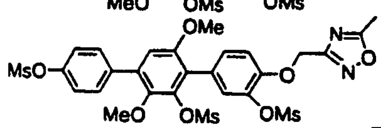

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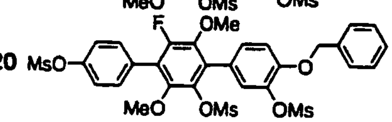

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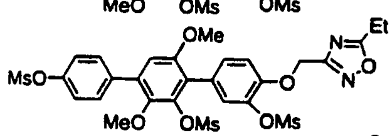

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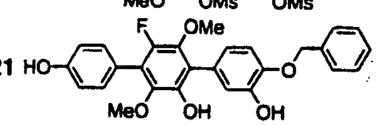

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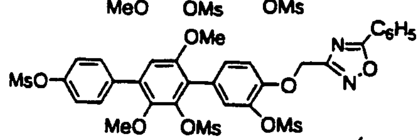

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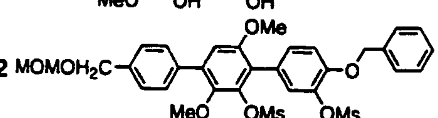

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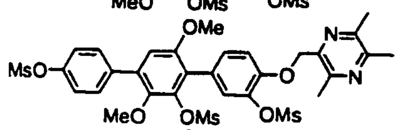

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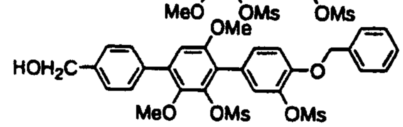

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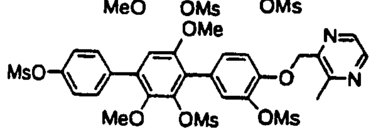

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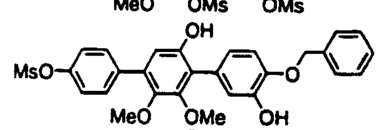

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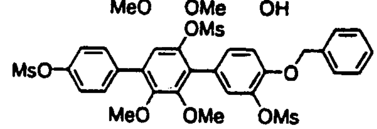
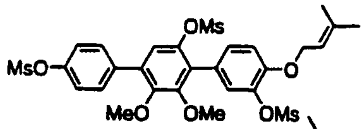
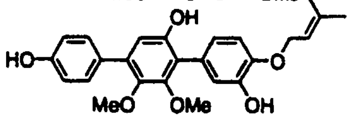
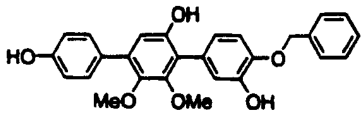
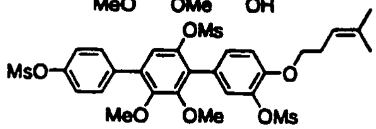
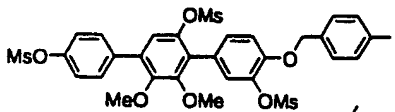


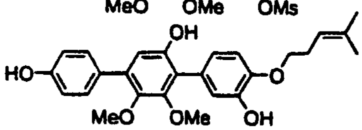
I-826 

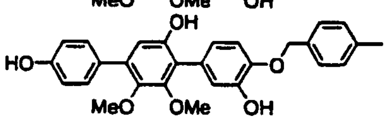
I-827 

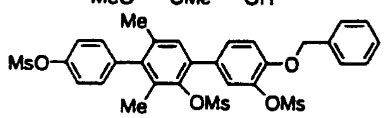
I-828 

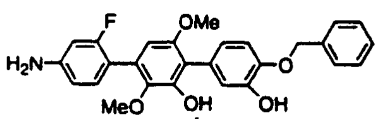
I-829 

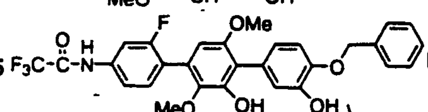
I-830 

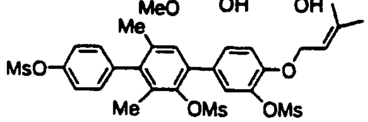
I-831 

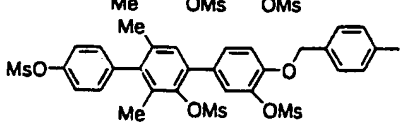
I-832 

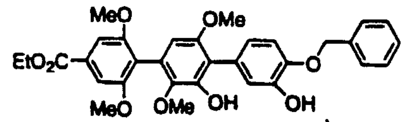
I-833 

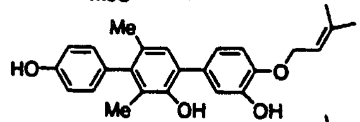
I-834 

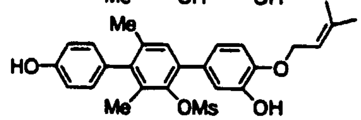
I-835 

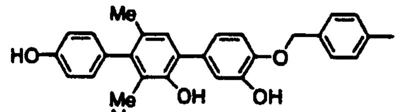
I-836 

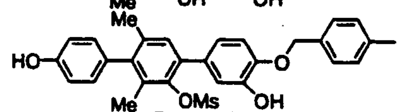
I-837 

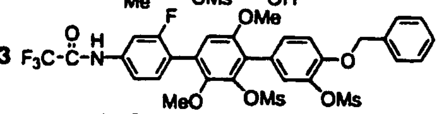
I-838 

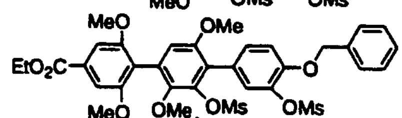
I-839 

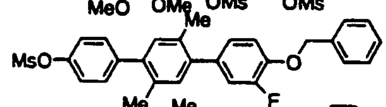
I-840 

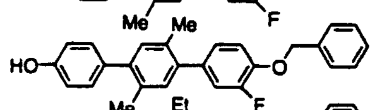
I-841 

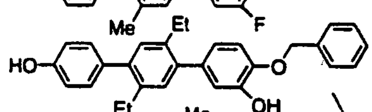
I-842 

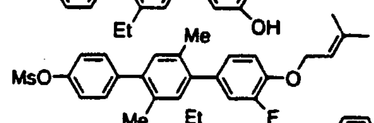
I-843 

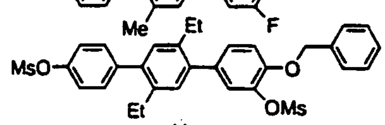
I-844 

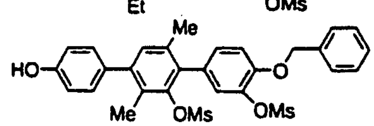
I-845 

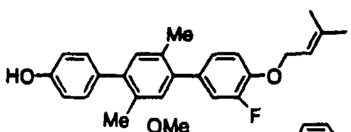
I-846 

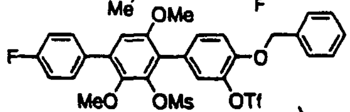
I-847 

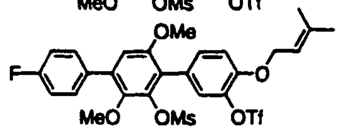
I-848 

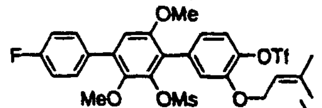
I-849 

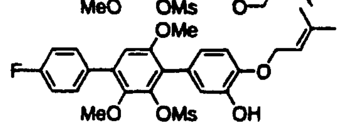
I-850 

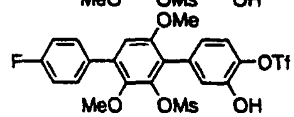
I-851 

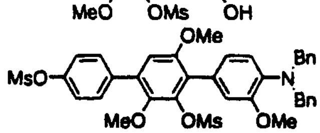
I-852 

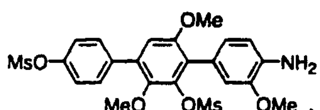
I-853 

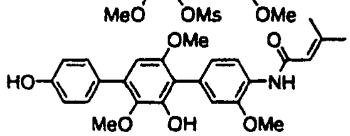
I-854 

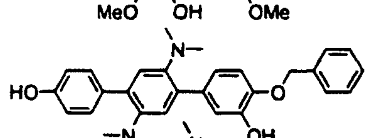
I-855 

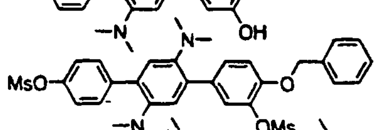
I-856 

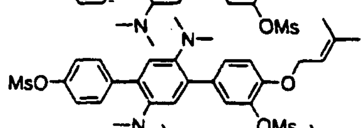
I-857 

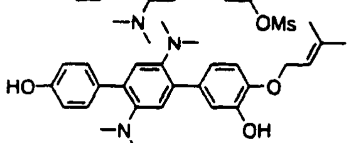
I-858 

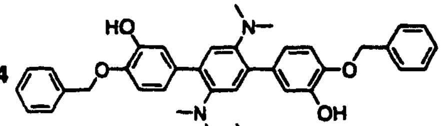
I-859 

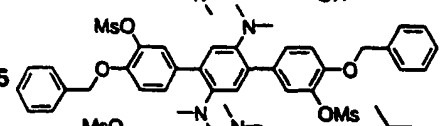
I-860 

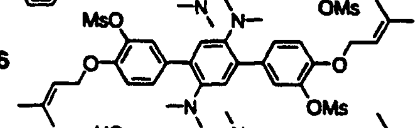
I-861 

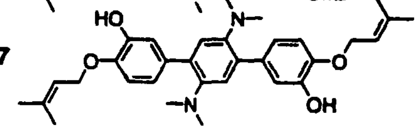
I-862 

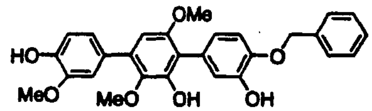
I-863 

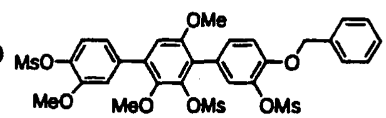
I-864 

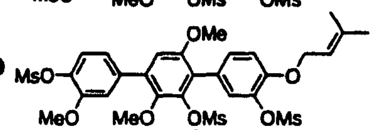
I-865 

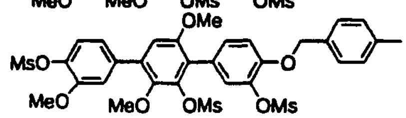
I-866 

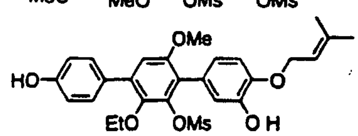
I-867 

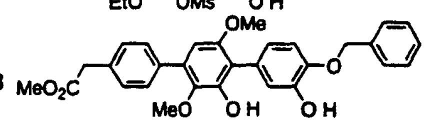
I-868 

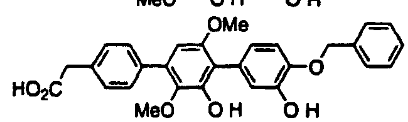
I-869 

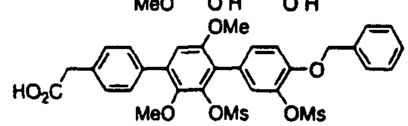
I-870 

I-871 

I-872 

I-873 

I-874 

I-875 

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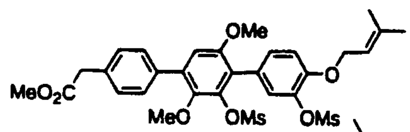

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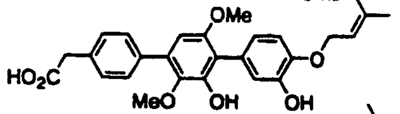

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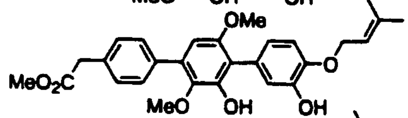

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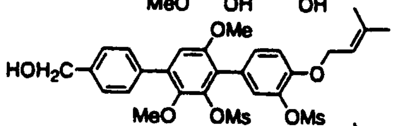

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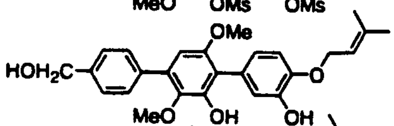

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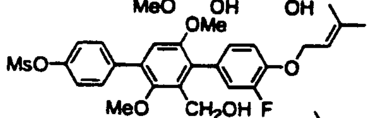

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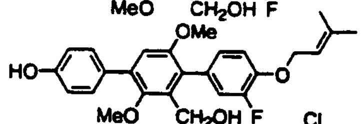

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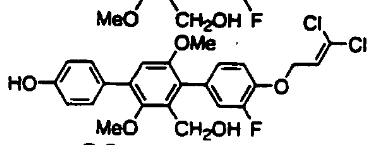

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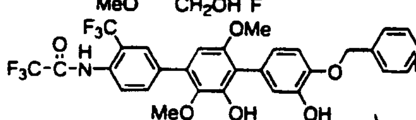

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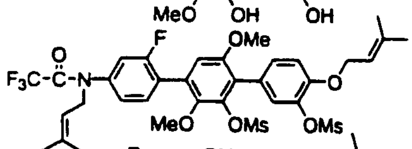

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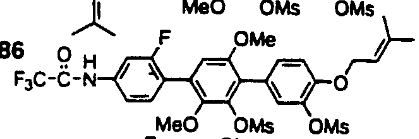

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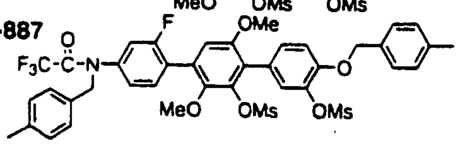

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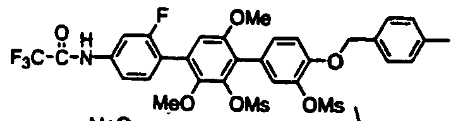

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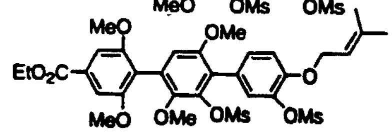

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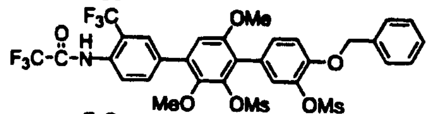

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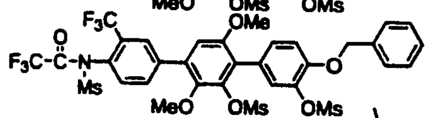

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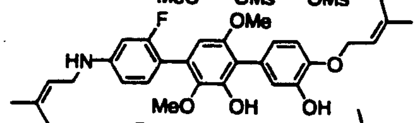

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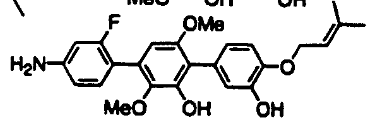

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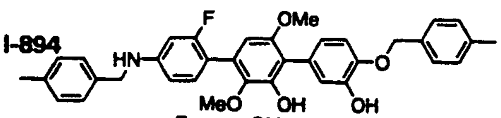

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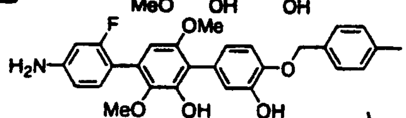

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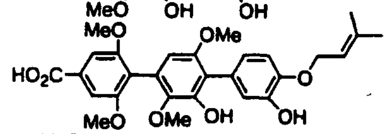

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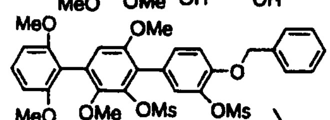

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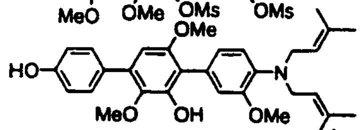

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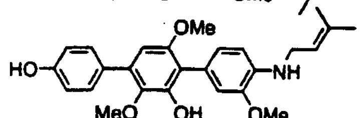

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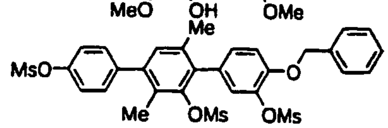

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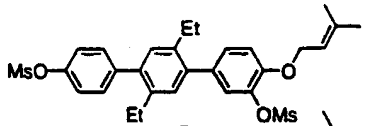

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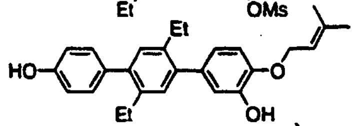

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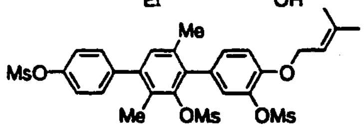

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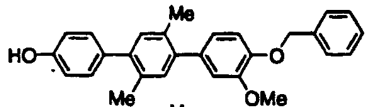

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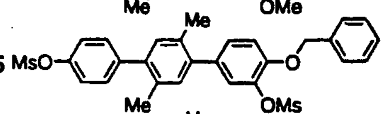

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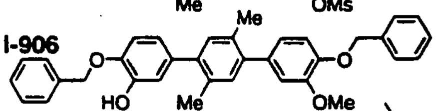

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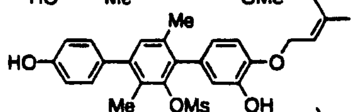

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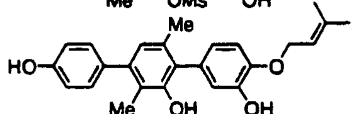

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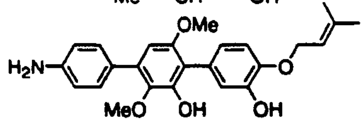

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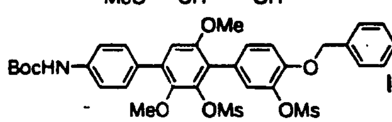

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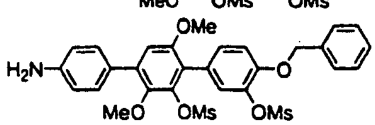

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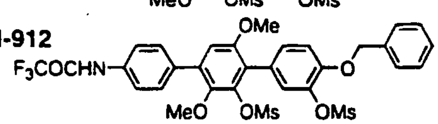

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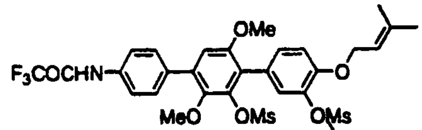

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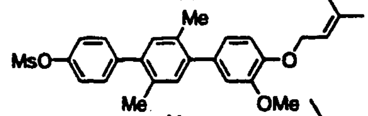

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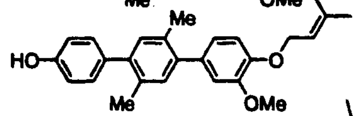

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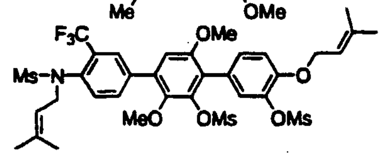

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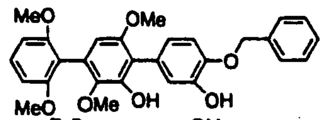

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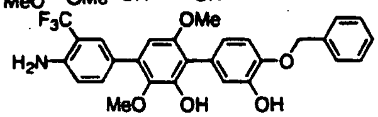

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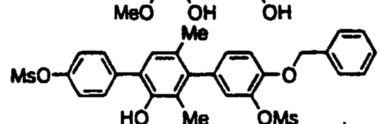

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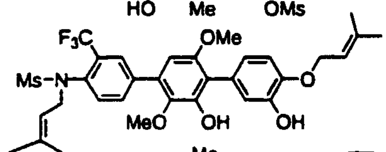

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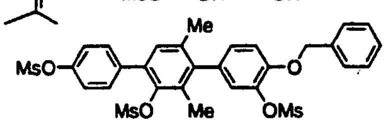

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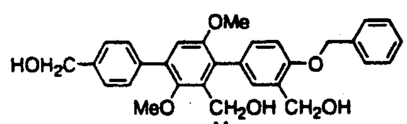

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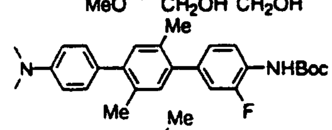

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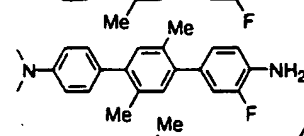

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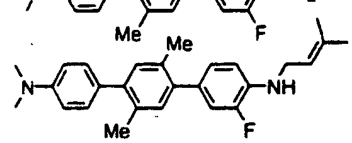
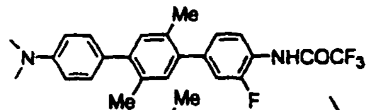
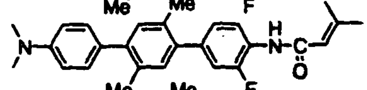
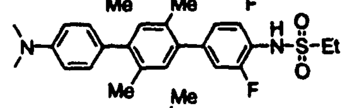
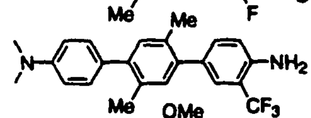
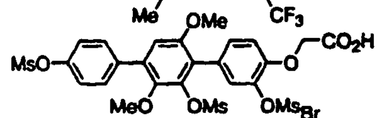


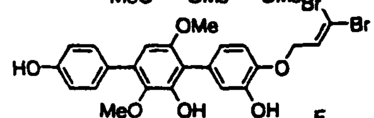
I-926 

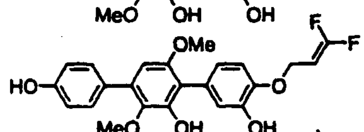
I-927 

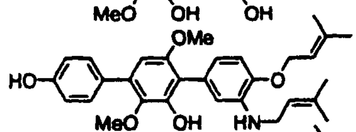
I-928 

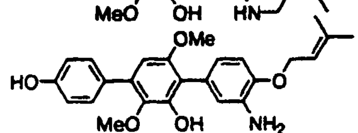
I-929 

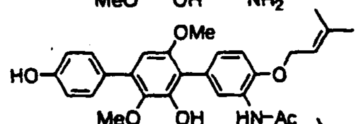
I-930 

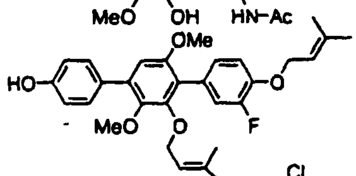
I-931 

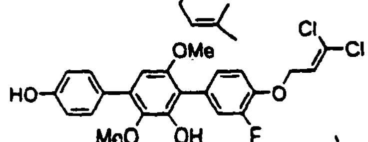
I-932 

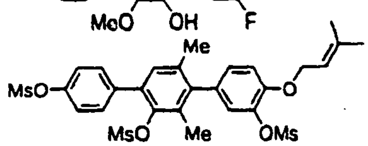
I-933 

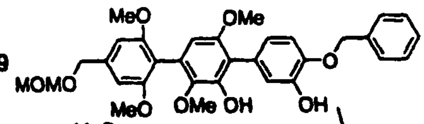
I-934 

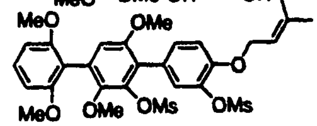
I-935 

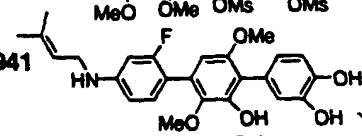
I-936 

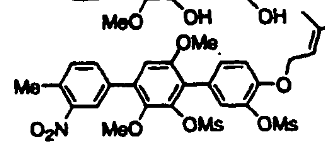
I-937 

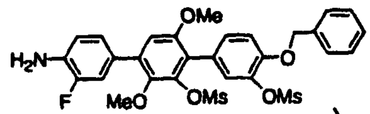
I-938 

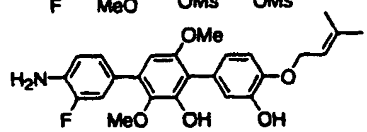
I-939 

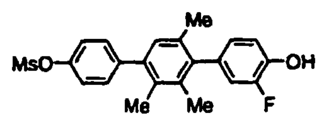
I-940 

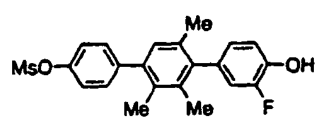
I-941 

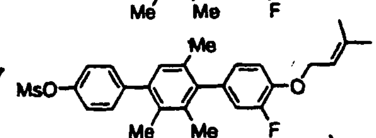
I-942 

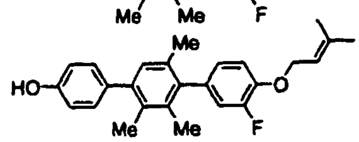
I-943 

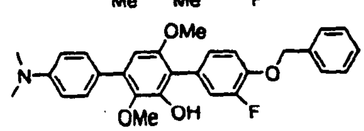
I-944 

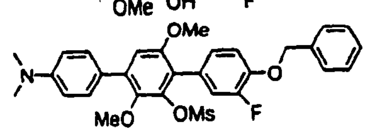
I-945 

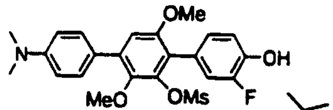
I-946 

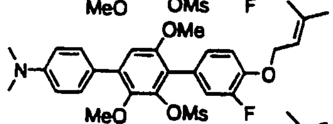
I-947 

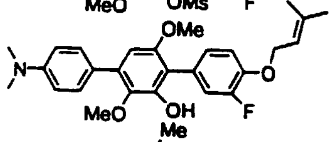
I-948 

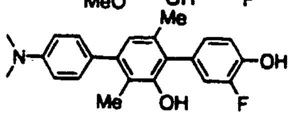
I-949 

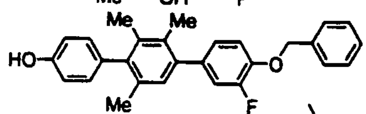
I-950 

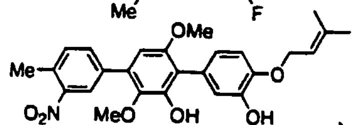
I-951 

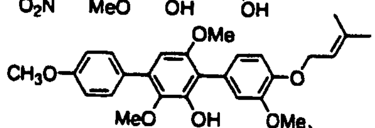
I-952 

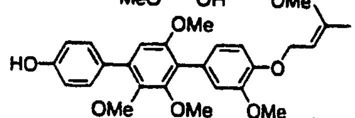
I-953 

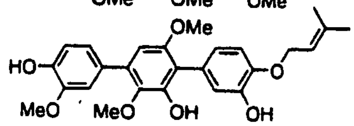
I-954 

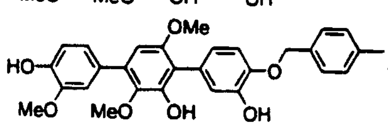
I-955 

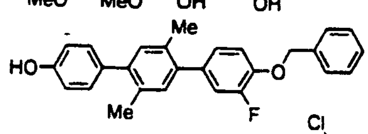
I-956 

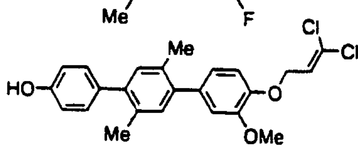
I-957 

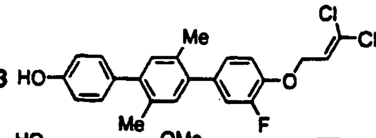
I-958 

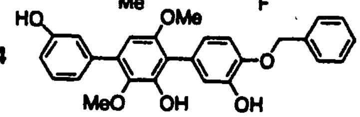
I-959 

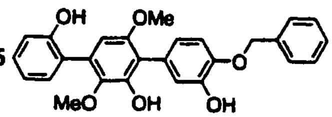
I-960 

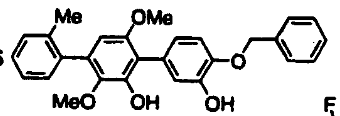
I-961 

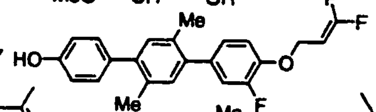
I-962 

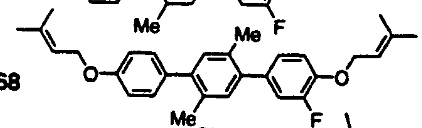
I-963 

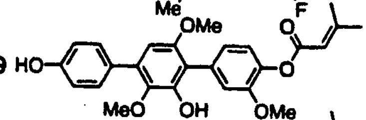
I-964 

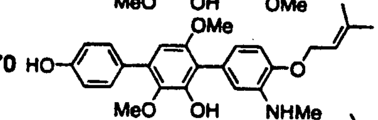
I-965 

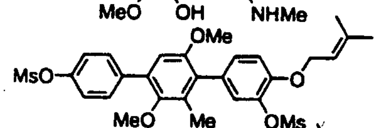
I-966 

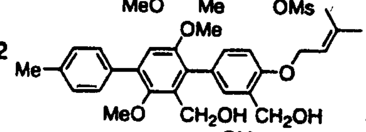
I-967 

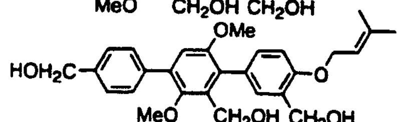
I-968 

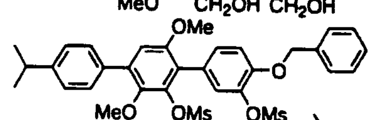
I-969 

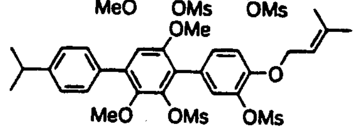
I-970 

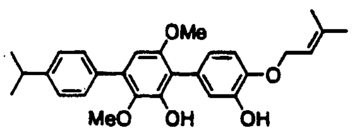
I-971 

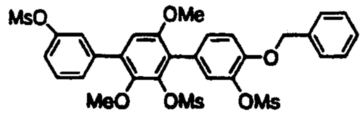
I-972 

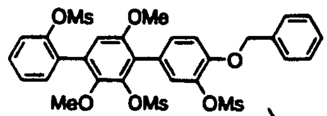
I-973 

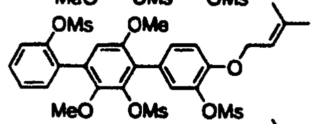
974 

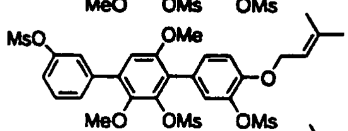
I-975 

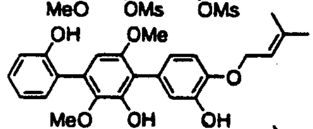
I-976 

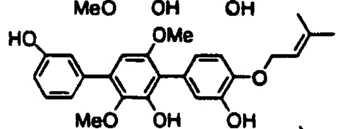
I-977 

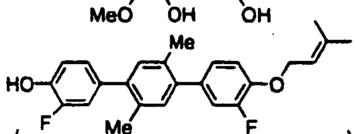
I-978 

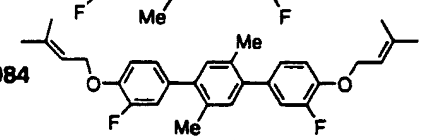
I-979 

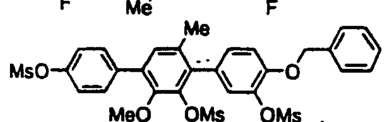
I-980 

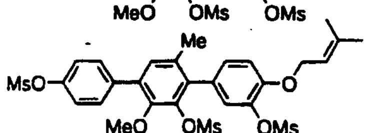
I-981 

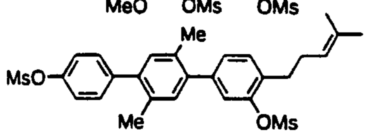
I-982 

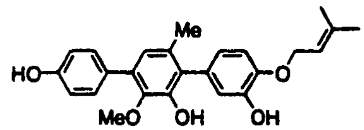
I-983 

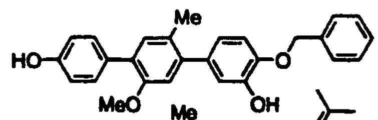
I-984 

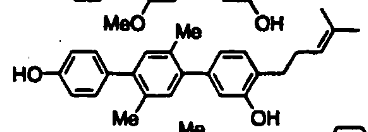
I-985 

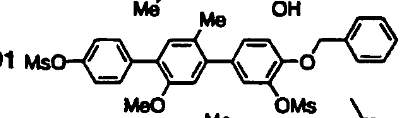
I-986 

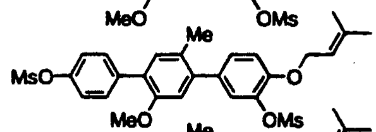
I-987 

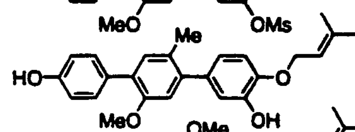
I-988 

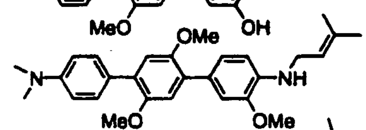
I-989 

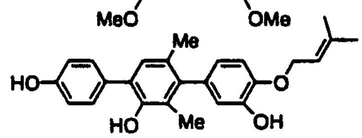
I-990 

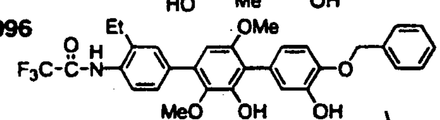
I-991 

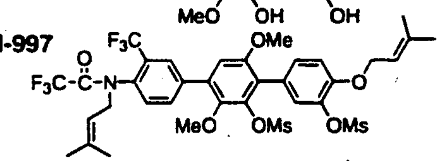
I-992 

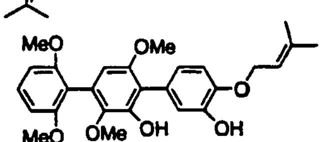
I-993 

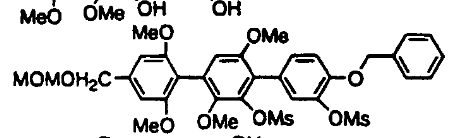
I-994 

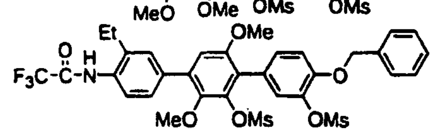
I-995 

I-996 

I-997 

I-998 

I-999 

I-1000 

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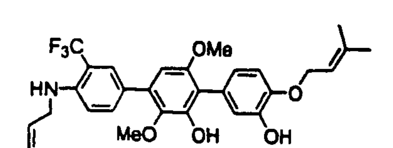

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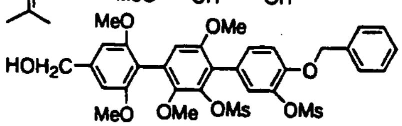

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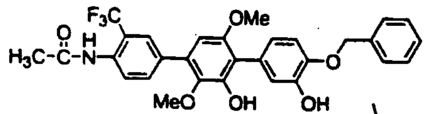

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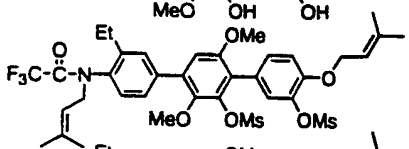

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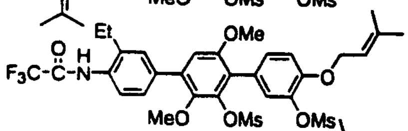

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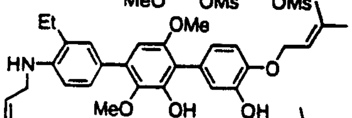

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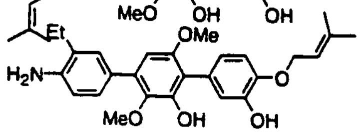

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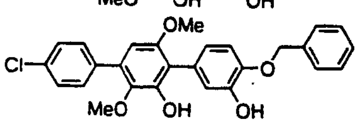

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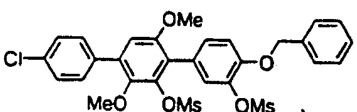

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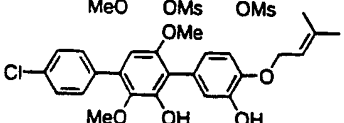

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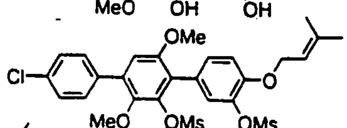

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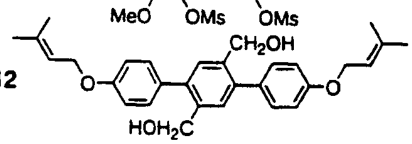

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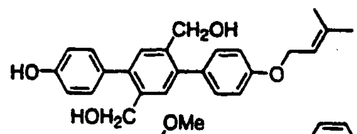

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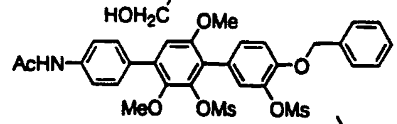

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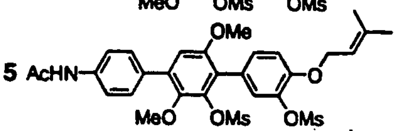

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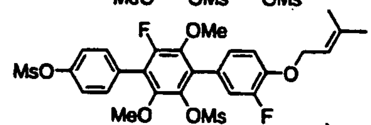

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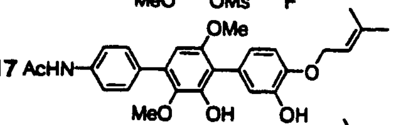

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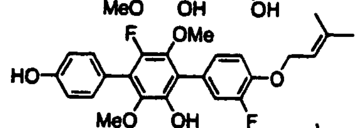

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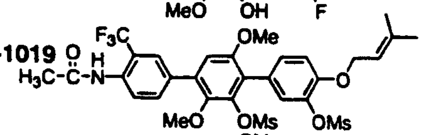

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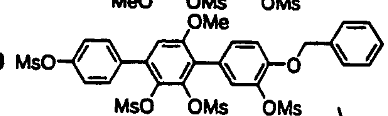

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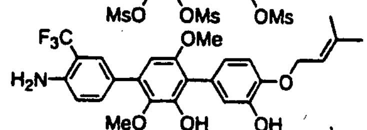

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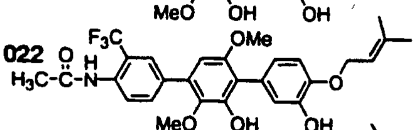

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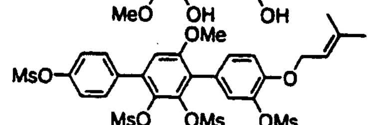

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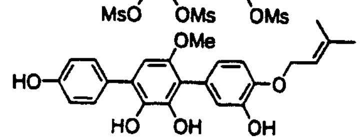

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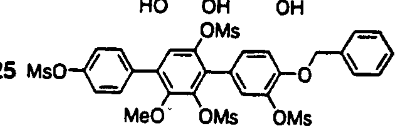
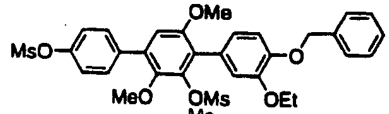
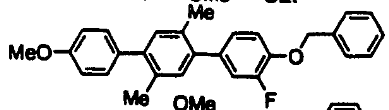
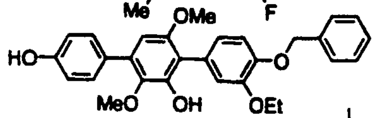
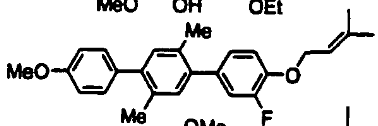
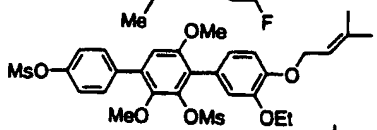


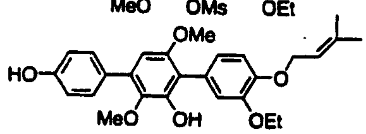
I-1026 

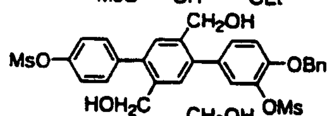
I-1027 

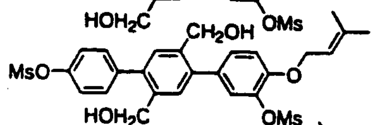
I-1028 

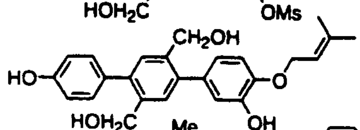
I-1029 

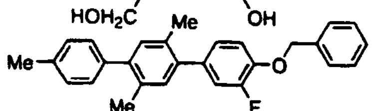
I-1030 

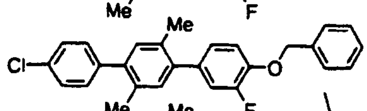
I-1031 

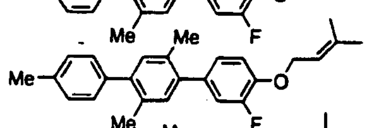
I-1032 

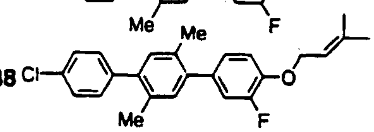
I-1033 

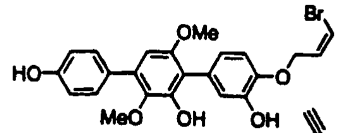
I-1034 

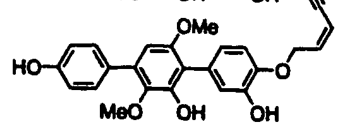
I-1035 

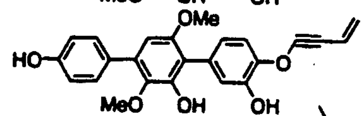
I-1036 

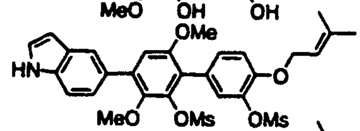
I-1037 

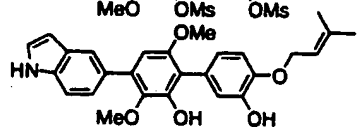
I-1038 

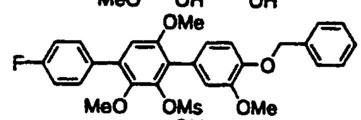
I-1039 

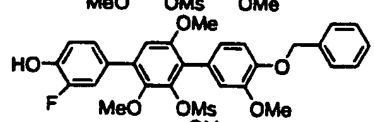
I-1040 

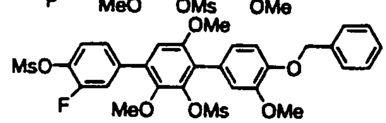
I-1041 

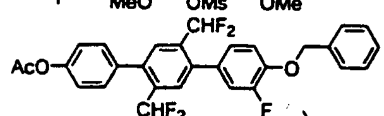
I-1042 

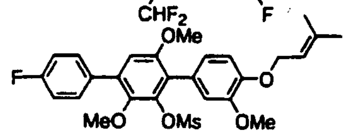
I-1043 

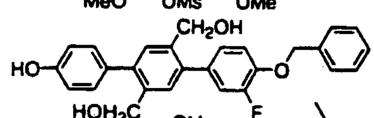
I-1044 

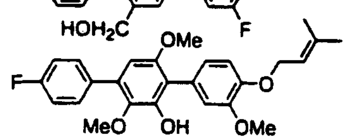
I-1045 

I-1046 

I-1047 

I-1048 

I-1049 

I-1050 

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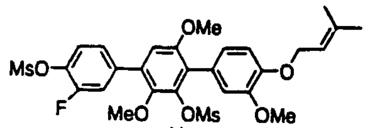

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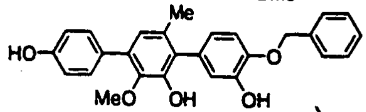

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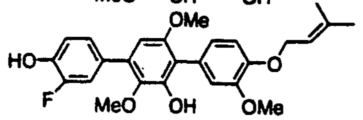

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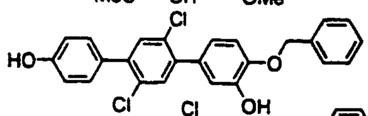

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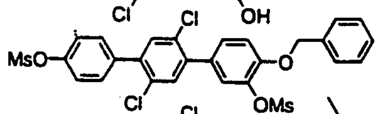

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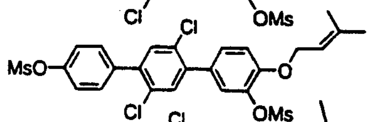

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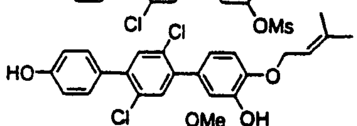

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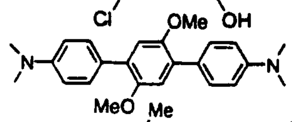

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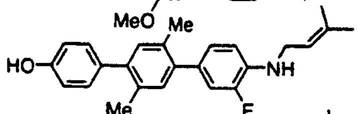

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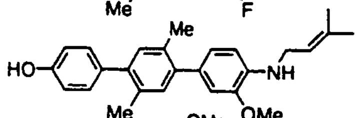

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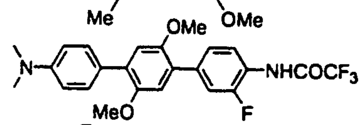

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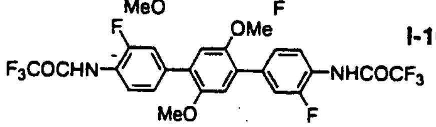

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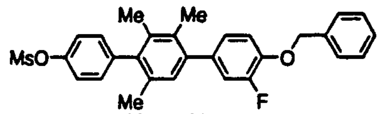

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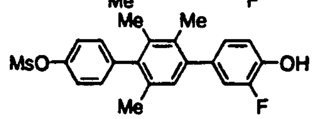

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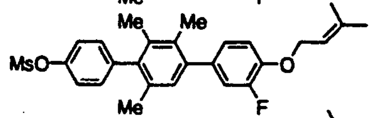

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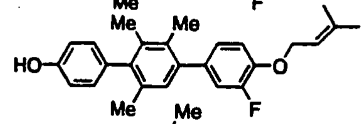

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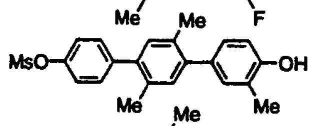

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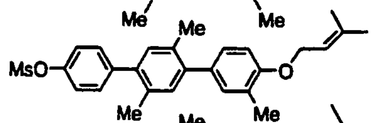

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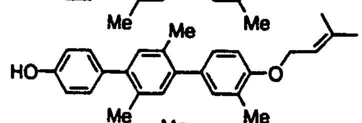

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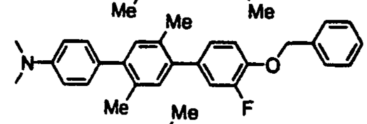

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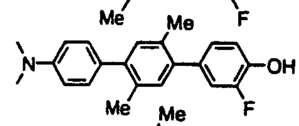

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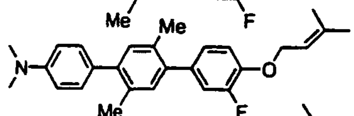

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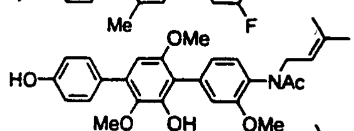

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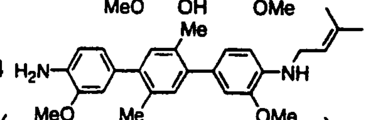

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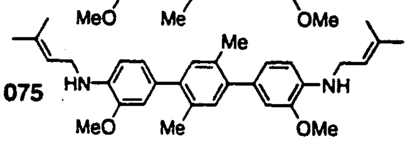
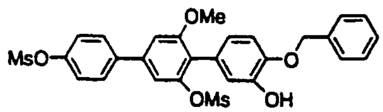
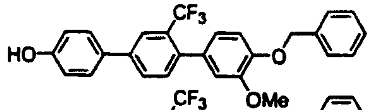
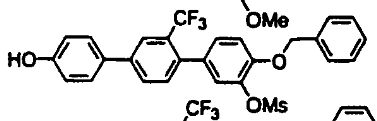
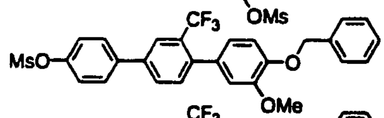
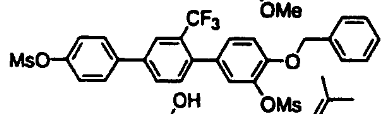


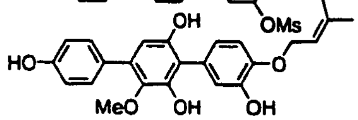
I-1076 

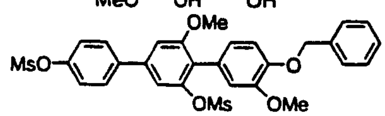
I-1077 

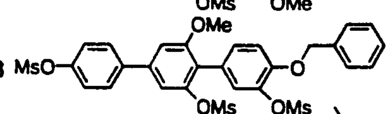
I-1078 

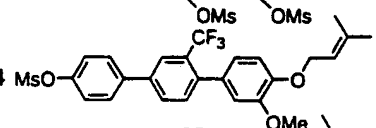
I-1079 

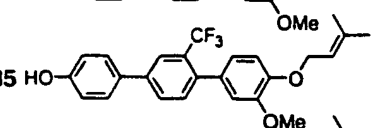
I-1080 

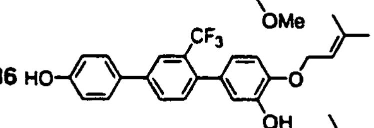
I-1081 

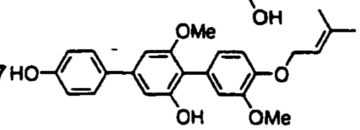
I-1082 

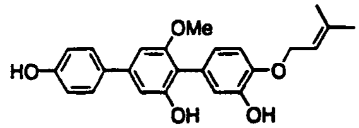
I-1083 

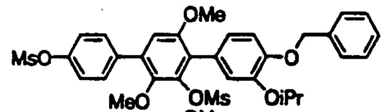
I-1084 

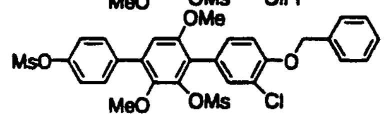
I-1085 

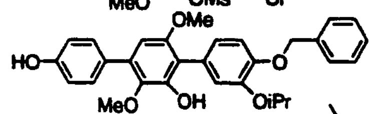
I-1086 

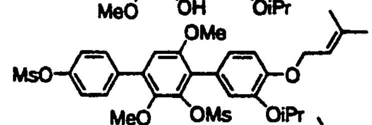
I-1087 

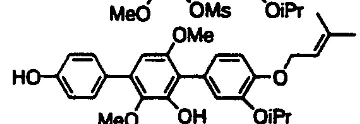
I-1088 

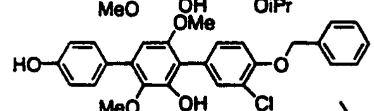
I-1089 

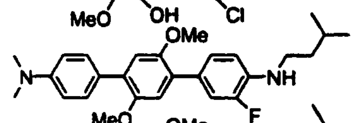
I-1090 

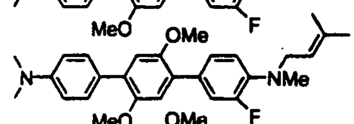
I-1091 

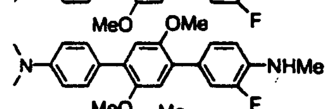
I-1092 

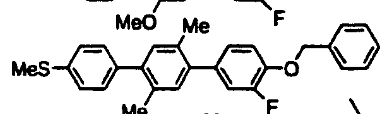
I-1093 

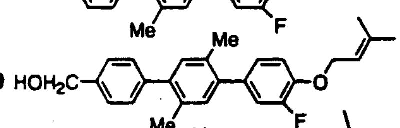
I-1094 

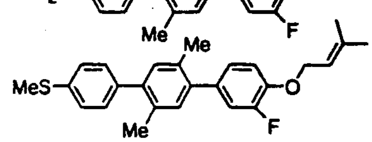
I-1095 

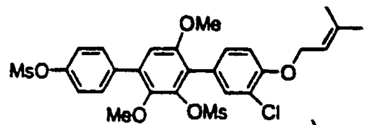
I-1096 

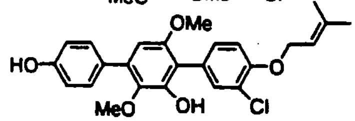
I-1097 

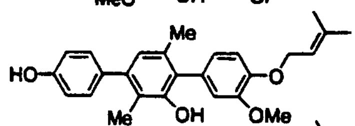
I-1098 

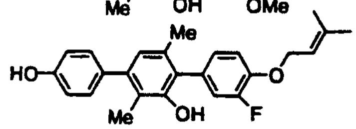
I-1099 

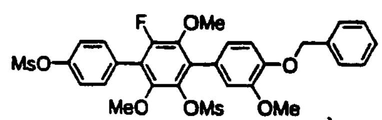
I-1100 

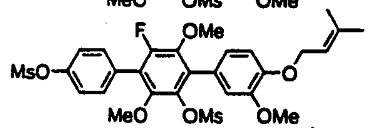
I-1101 

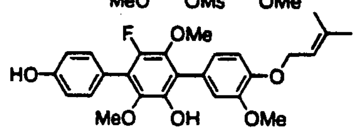
I-1102 

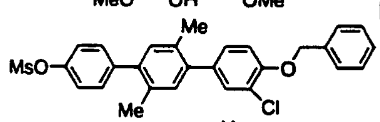
I-1103 

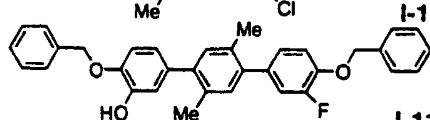
I-1104 

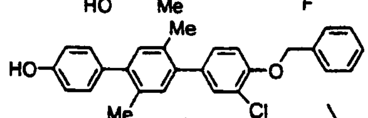
I-1105 

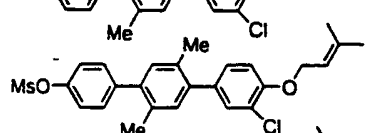
I-1106 

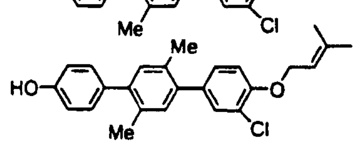
I-1107 

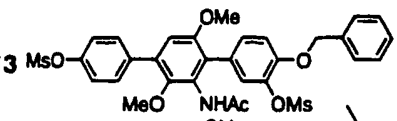
I-1108 

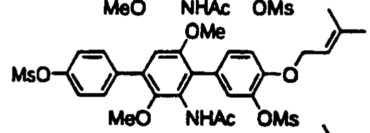
I-1109 

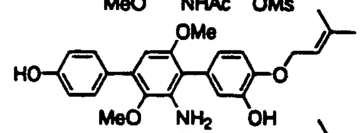
I-1110 

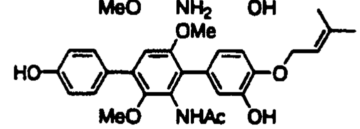
I-1111 

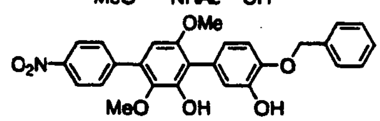
I-1112 

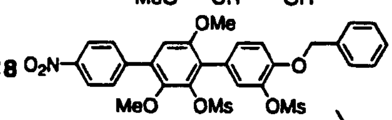
I-1113 

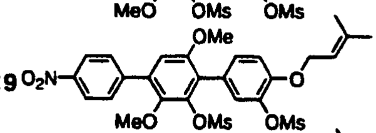
I-1114 

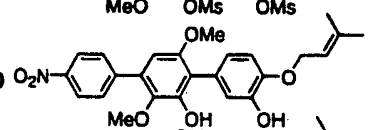
I-1115 

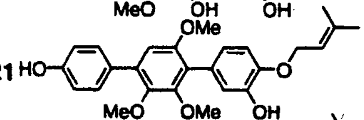
I-1116 

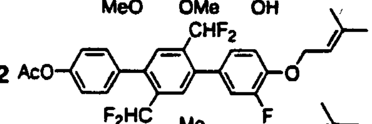
I-1117 

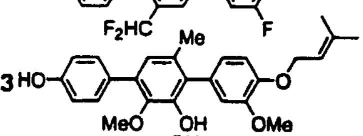
I-1118 

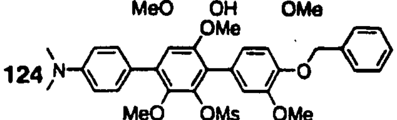
I-1119 

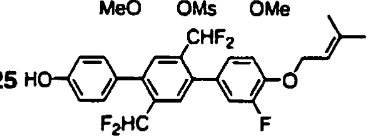
I-1120 

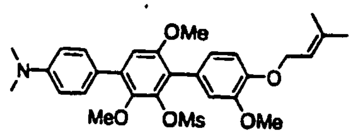
I-1121 

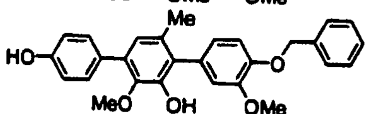
I-1122 

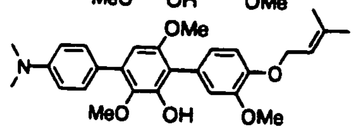
I-1123 

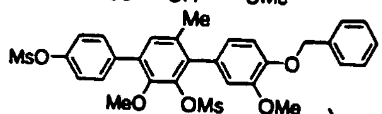
I-1124 

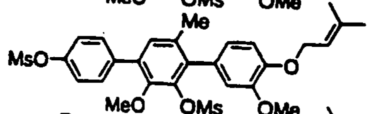
I-1125 

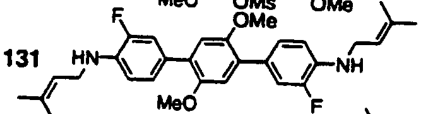
I-1126 

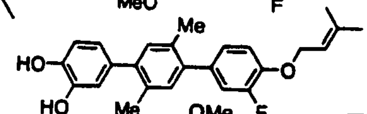
I-1127 

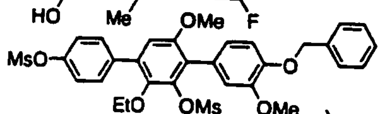
I-1128 

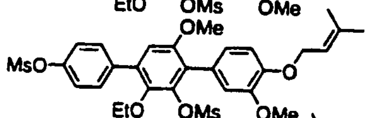
I-1129 

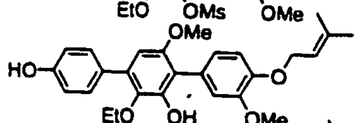
I-1130 

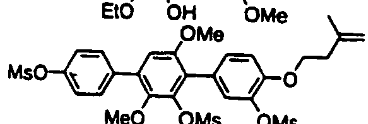
I-1131 

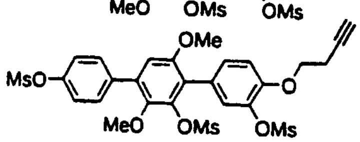
I-1132 

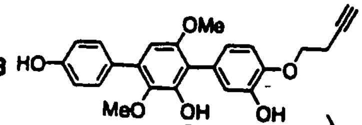
I-1133 

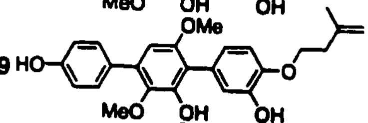
I-1134 

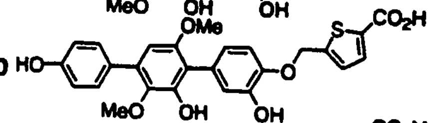
I-1135 

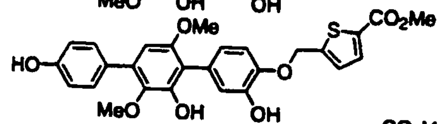
I-1136 

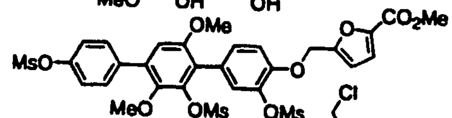
I-1137 

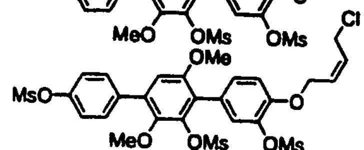
I-1138 

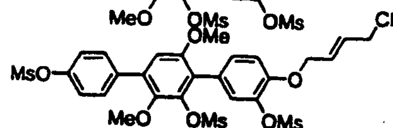
I-1139 

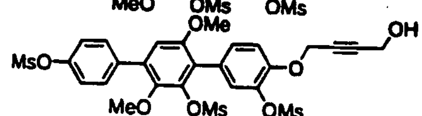
I-1140 

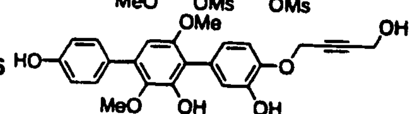
I-1141 

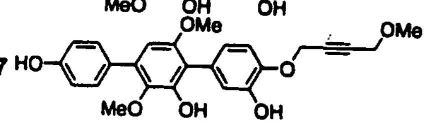
I-1142 

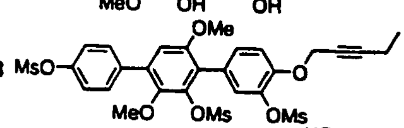
I-1143 

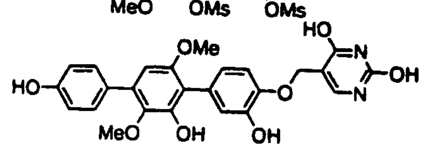
I-1144 

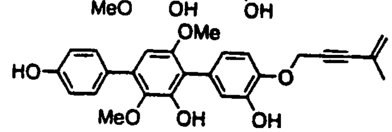
I-1145 

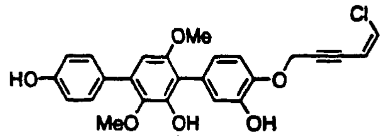
I-1146 

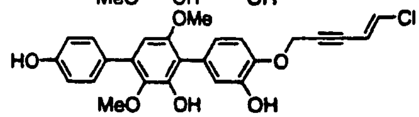
I-1147 

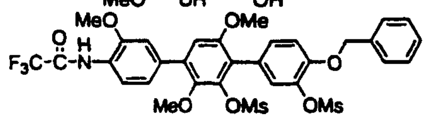
I-1148 

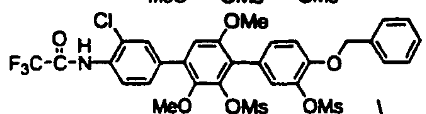
I-1149 

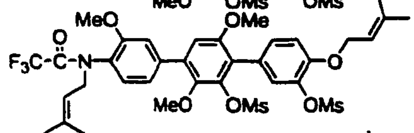
I-1150 

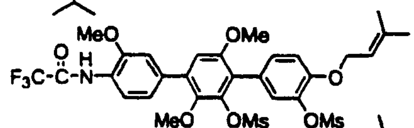
I-1151 

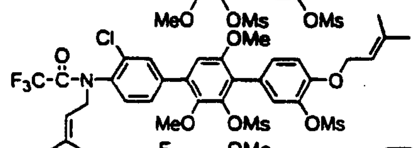
I-I-1152 

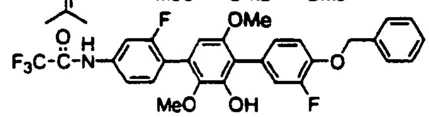
I-1153 

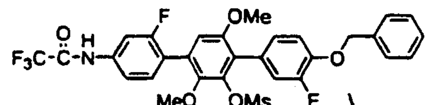
I-1154 

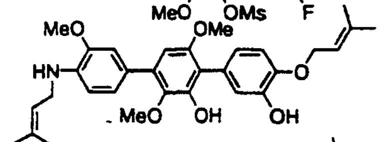
I-1155 

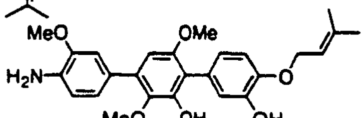
I-1156 

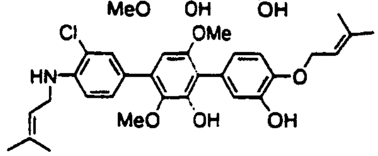
I-1157 

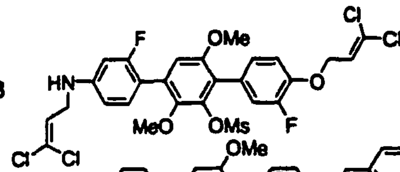
I-1158 

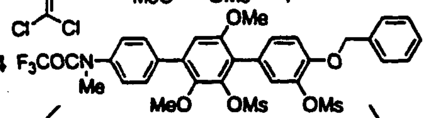
I-1159 

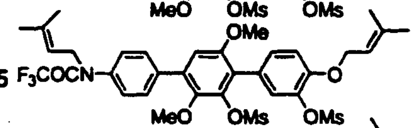
I-1160 

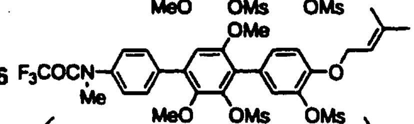
I-1161 

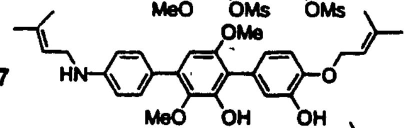
I-1162 

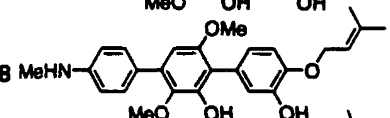
I-1163 

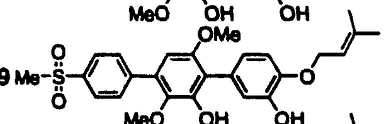
I-1164 

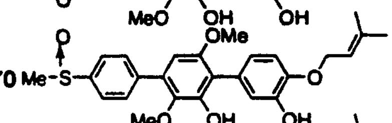
I-1165 

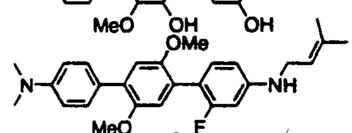
I-1166 

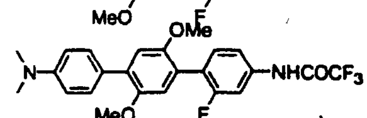
I-1167 

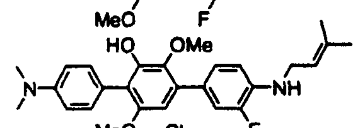
I-1168 

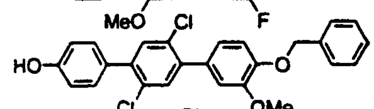
I-1169 

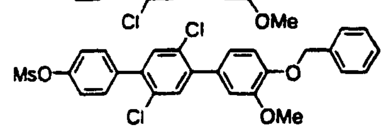
I-1170 

I-1171 

I-1172 

I-1173 

I-1174 

I-1175 

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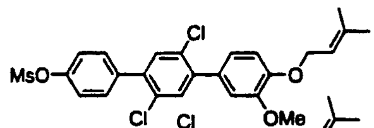

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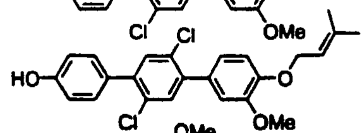

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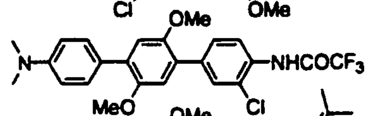

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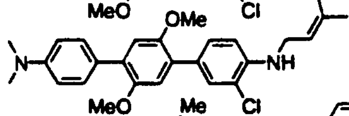

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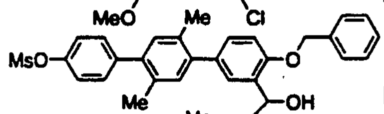

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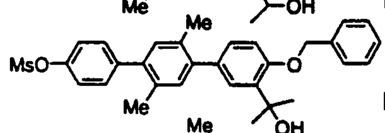

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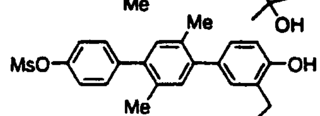

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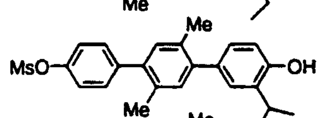

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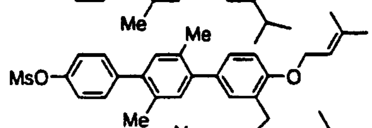

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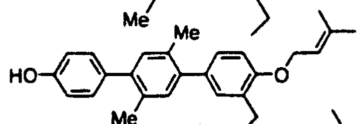

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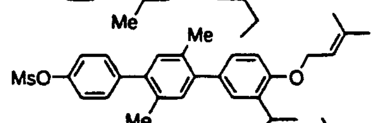

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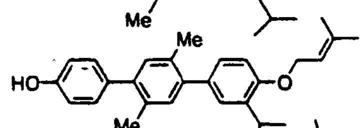

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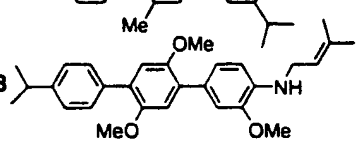

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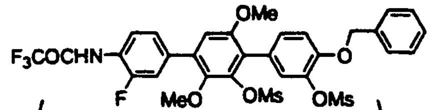

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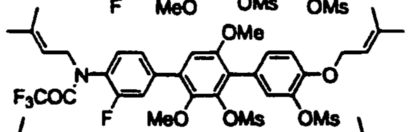

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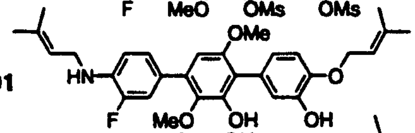

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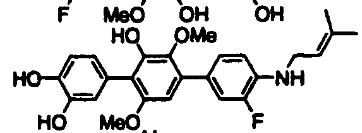

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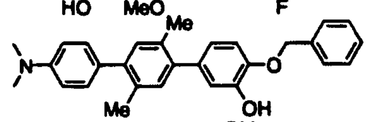

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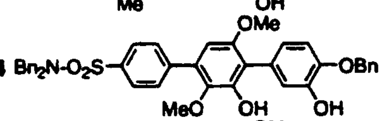

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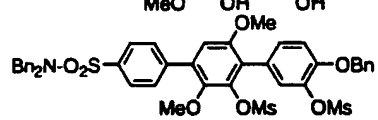

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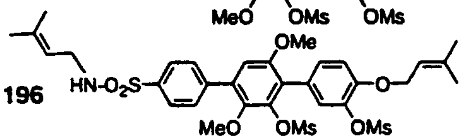

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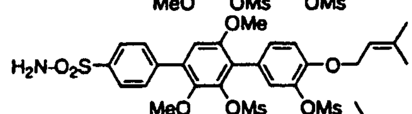

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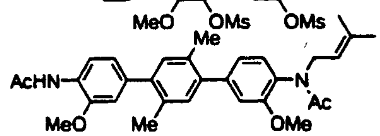

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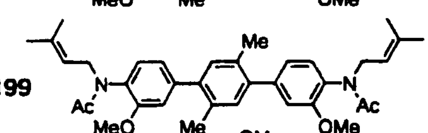

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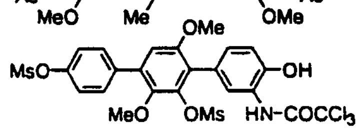
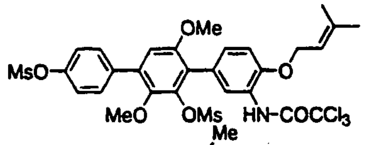
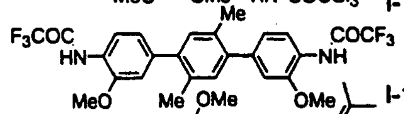
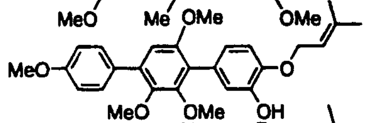
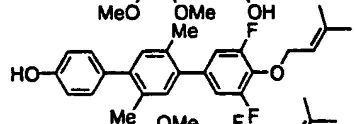
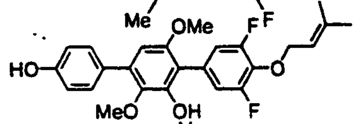


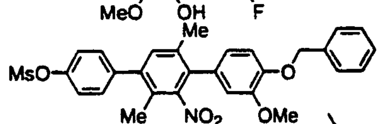
I-1201 

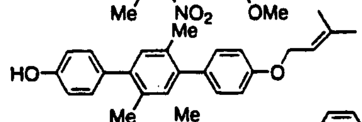
I-1202 

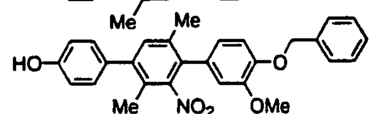
I-1203 

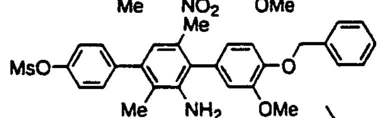
I-1204 

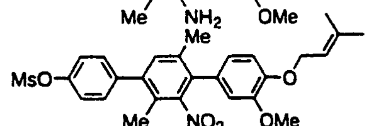
I-1205 

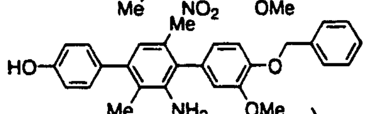
I-1206 

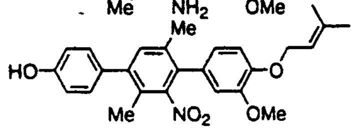
I-1207 

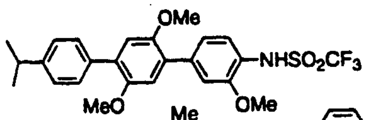
I-1208 

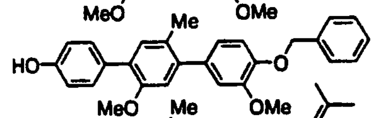
I-1209 

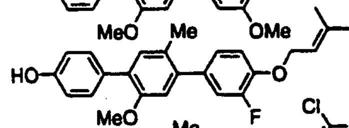
I-1210 

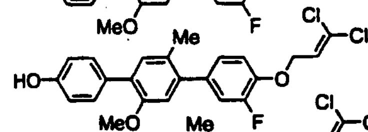
I-1211 

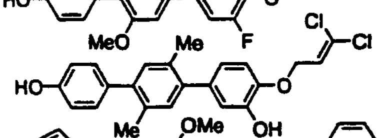
I-1212 

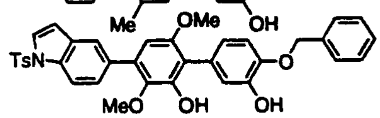
I-1213 

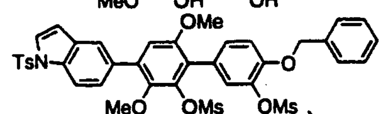
I-1214 

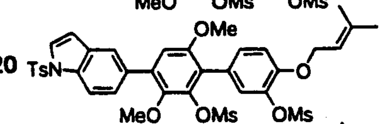
I-1215 

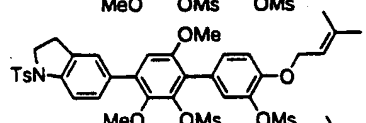
I-1216 

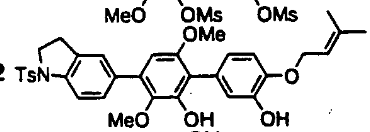
I-1217 

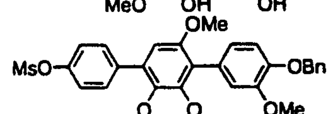
I-1218 

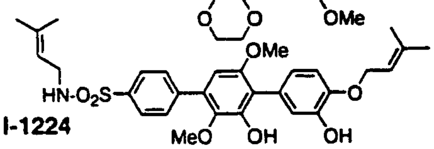
I-1219 

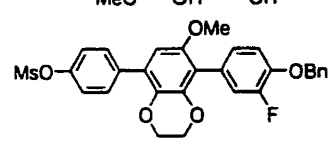
I-1220 

I-1221 

I-1222 

I-1223 

I-1224 

I-1225 

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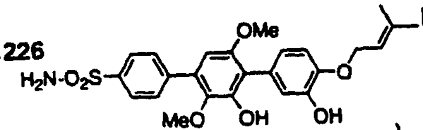

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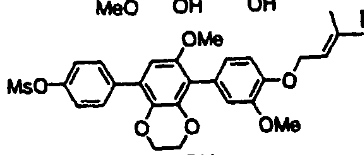

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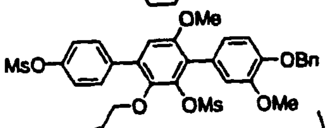

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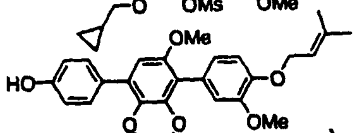

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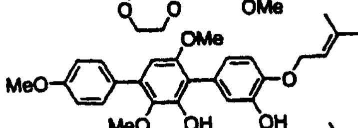

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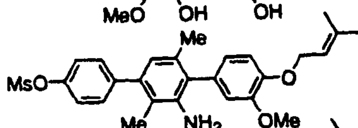

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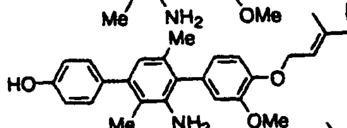

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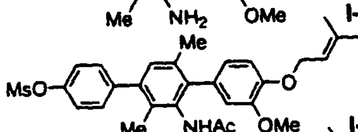

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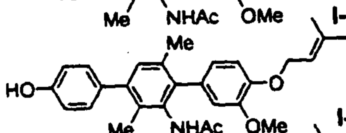

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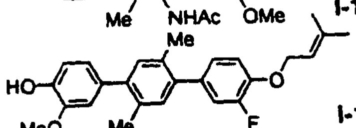

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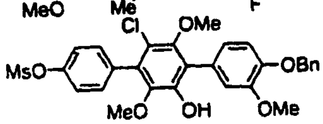

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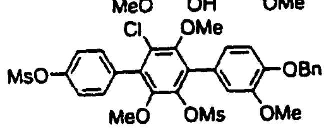

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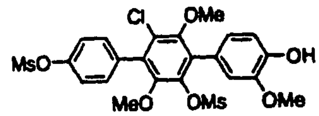

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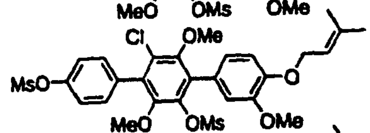

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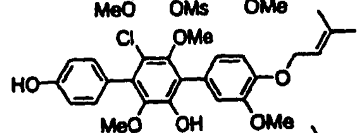

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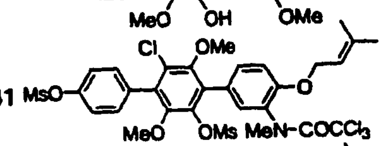

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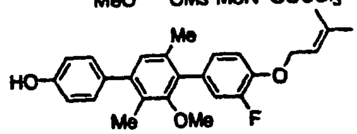

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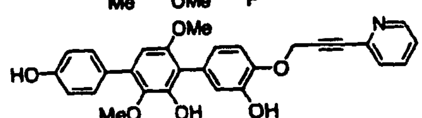

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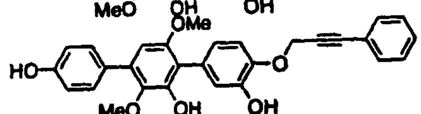

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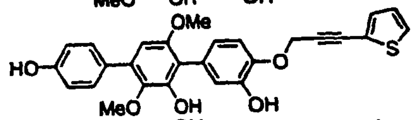

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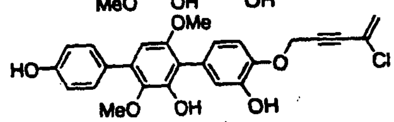

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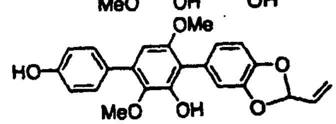

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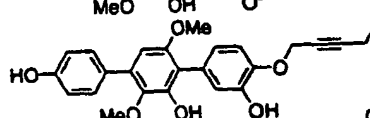

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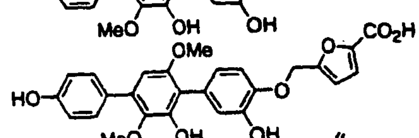

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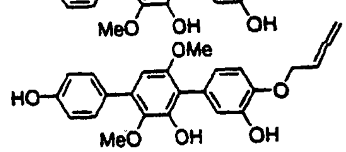
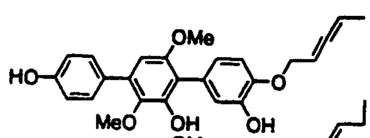
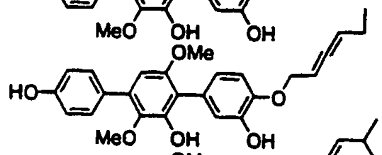
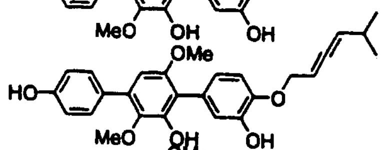
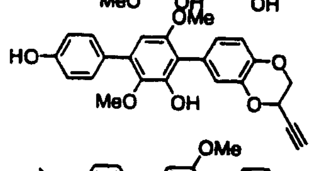
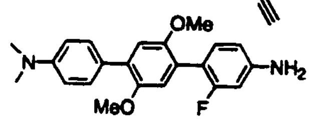


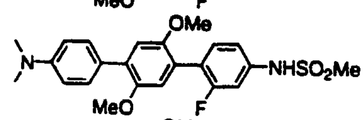
I-1251 

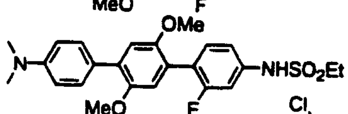
I-1252 

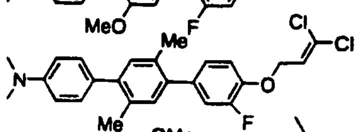
I-1253 

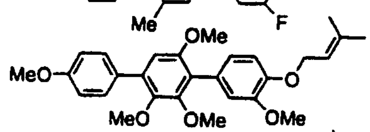
I-1254 

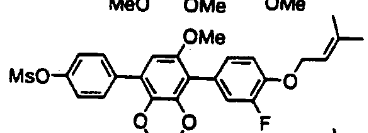
I-1255 

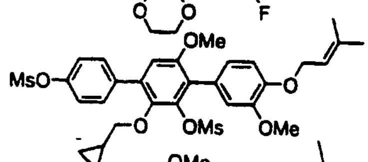
I-1256 

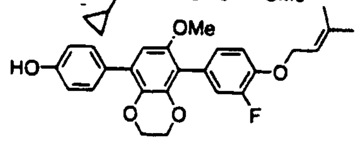
I-1257 

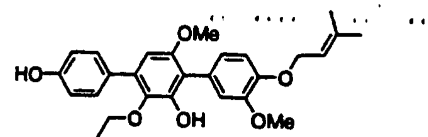
I-1258 

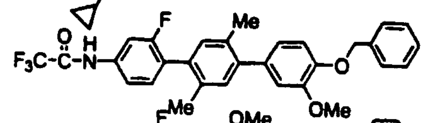
I-1259 

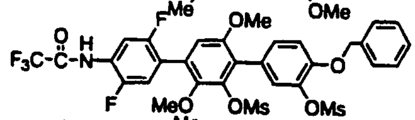
I-1260 

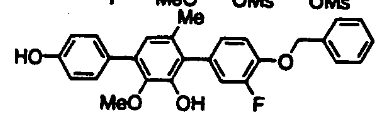
I-1261 

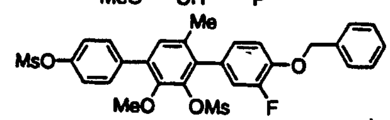
I-1262 

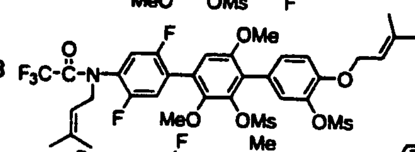
I-1263 

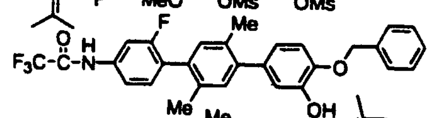
I-1264 

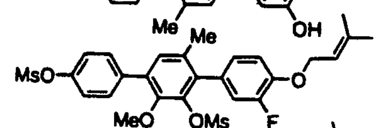
I-1265 

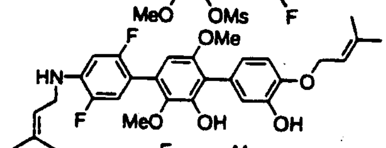
I-1266 

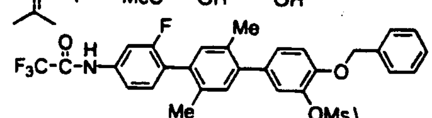
I-1267 

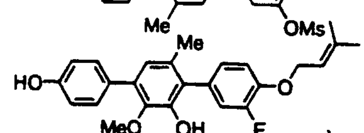
I-1268 

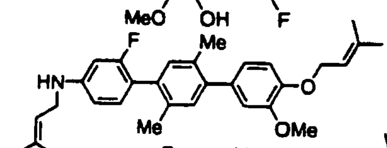
I-1269 

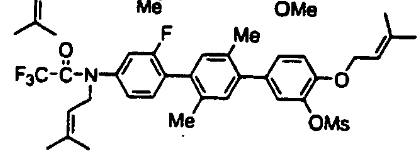
I-1270 

I-1271 

I-1272 

I-1273 

I-1274 

I-1275 

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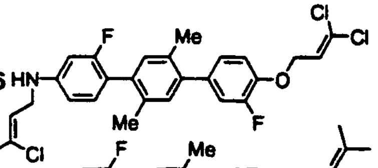

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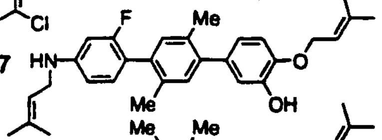

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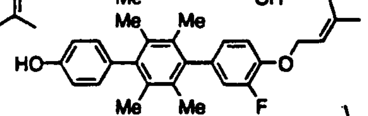

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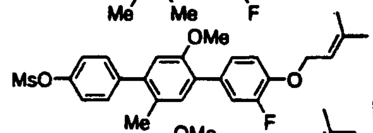

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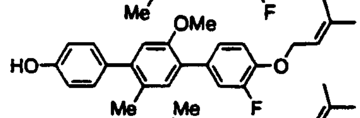

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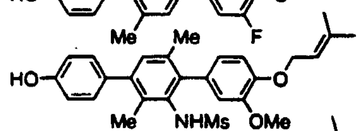

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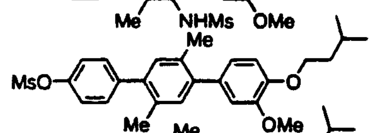

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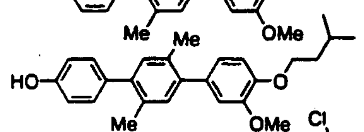

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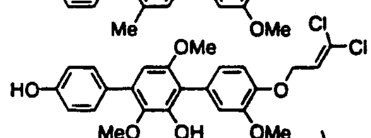

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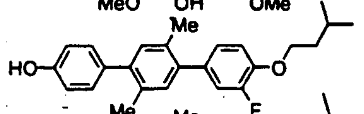

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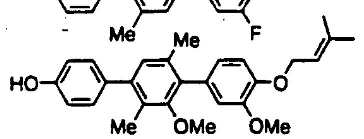

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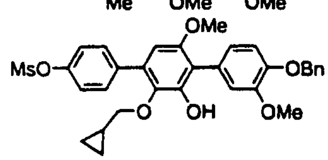

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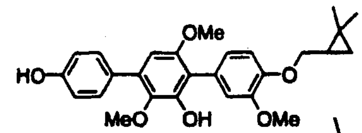

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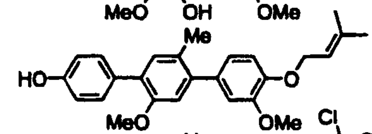

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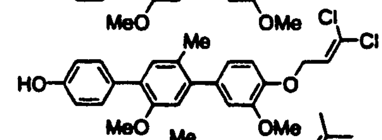

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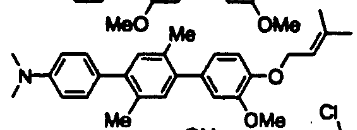

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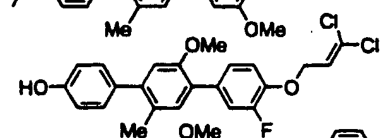

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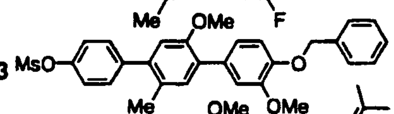

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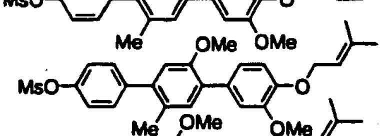

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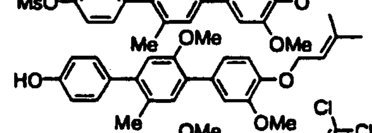

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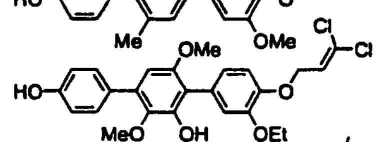

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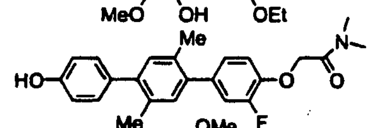

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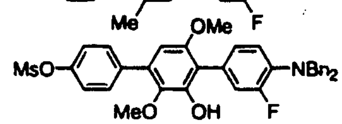

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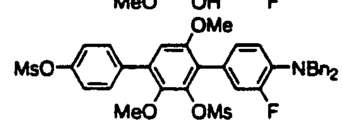

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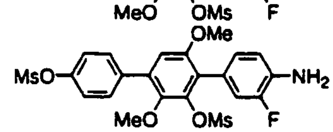
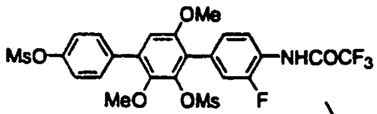
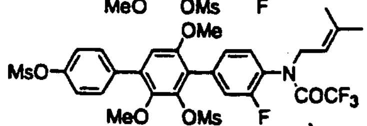
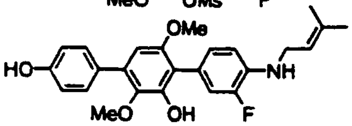
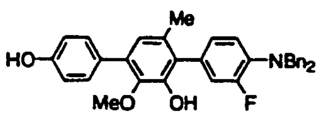
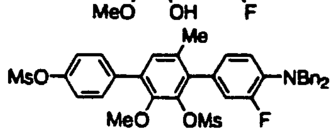


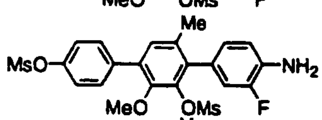
I-1301 

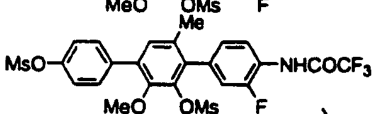
I-1302 

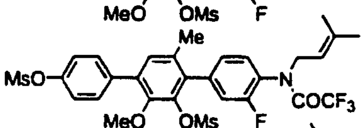
I-1303 

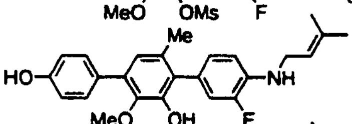
I-1304 

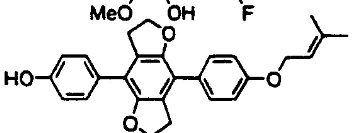
I-1305 

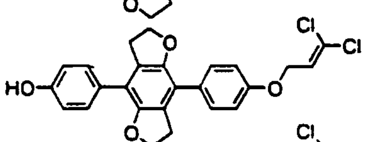
I-1306 

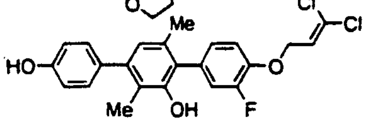
I-1307 

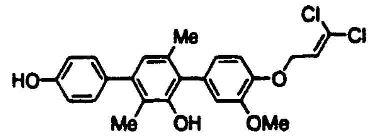
I-1308 

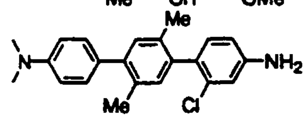
I-1309 

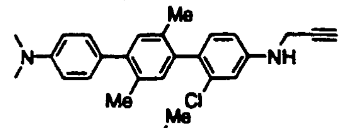
I-1310 

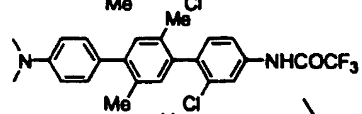
I-1311 

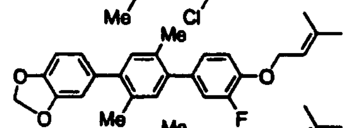
I-1312 

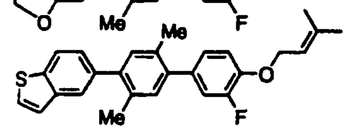
I-1313 

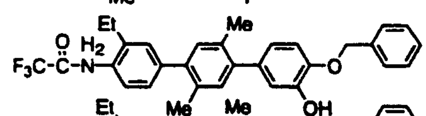
I-1314 

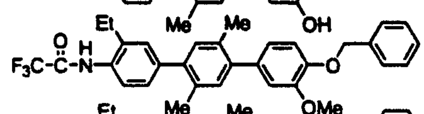
I-1315 

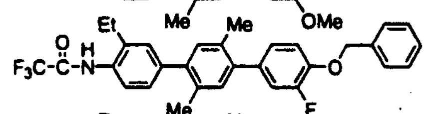
I-1316 

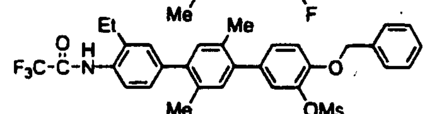
I-1317 

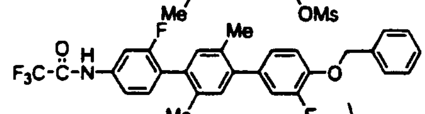
I-1318 

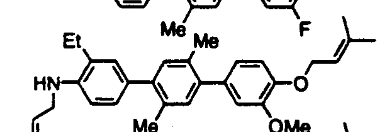
I-1319 

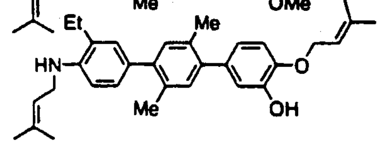
I-1320 

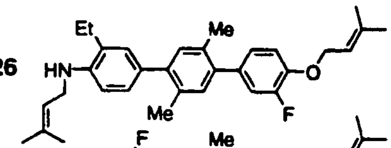
I-1321 

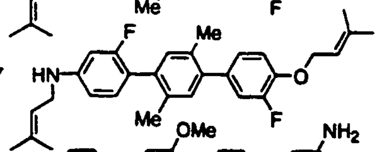
I-1322 

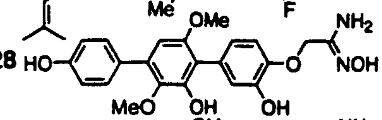
I-1323 

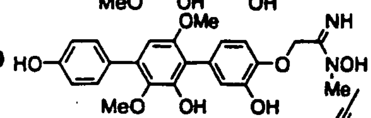
I-1324 

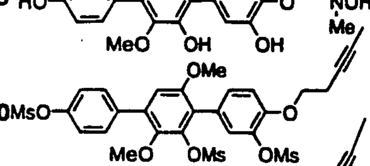
I-1325 

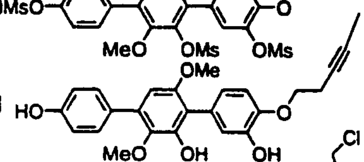
I-1326 

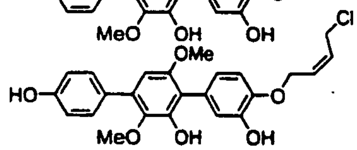
I-1327 

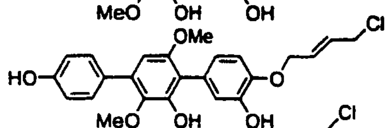
I-1328 

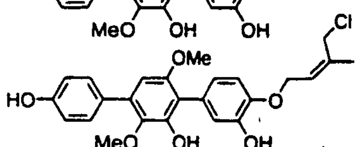
I-1329 

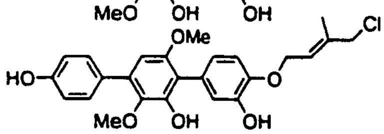
I-1330 

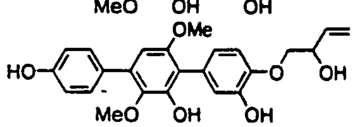
I-1331 

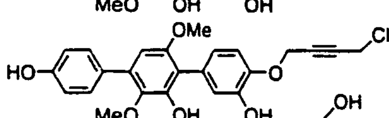
I-1332 

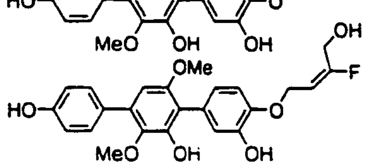
I-1333 

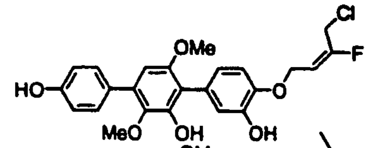
I-1334 

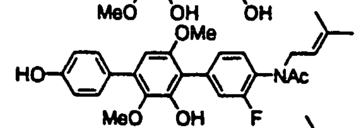
I-1335 

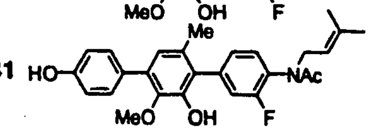
I-1336 

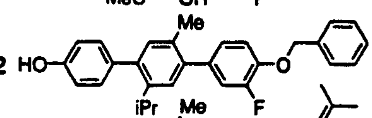
I-1337 

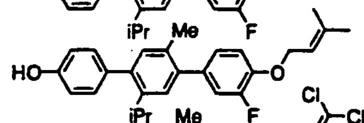
I-1338 

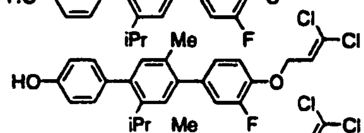
I-1339 

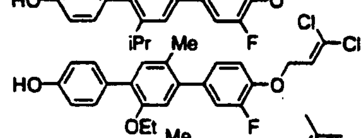
I-1340 

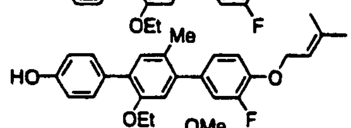
I-1341 

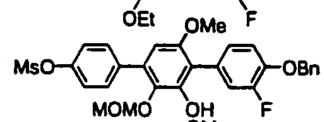
I-1342 

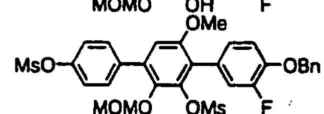
I-1343 

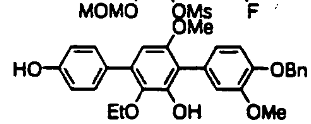
I-1344 

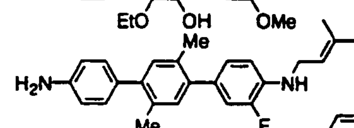
I-1345 

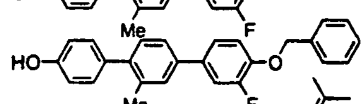
I-1346 

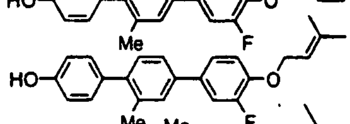
I-1347 

I-1348 

I-1349 

I-1350 

I-1351 

I-1352 

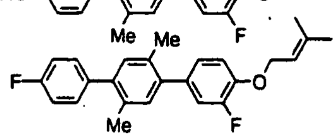
I-1353 

Table 1

III-1	m.p.201-203℃ ^{1}HNMR(DMSO-d_6) δ 3.44(s,3H),3.48(s,3H),3.62(s,3H),3.92(s,3H),7.09(s,1H),7.40-7.53(m,2H),7.65-7.78(m,2H)
III-2	^{1}HNMR($CDCl_3$) δ 3.47(s,3H),3.94(s,3H),7.13-7.24(m,3H),7.50-7.59(m,2H),10.41(s,1H) IR(KBr)1700,1562,1479,1438,1393,1226,1199,1180,1161,1076,1047cm^{-1}
III-3	m.p.181-182℃ ^{1}HNMR($CDCl_3$) δ 3.21(s,3H),3.40(s,3H),3.49(s,3H),3.90(s,3H),4.81(s,2H),4.85(s,2H),6.86(s,1H),7.32-7.40(m,2H),7.60-7.68(m,2H) IR(KBr)1504,1467,1370,1235,1152,1038,1010,870,846,785cm^{-1}
III-4	^{1}HNMR($CDCl_3$) δ 2.95(s,3H),3.18(s,3H),3.21(s,3H),3.41(s,3H),3.91(s,3H),6.84(s,1H),7.37(d,J=8.9Hz,2H),7.63(d,J=8.9Hz,2H)
III-5	m.p.140-141℃ ^{1}HNMR($CDCl_3$) δ 3.21(s,3H),3.45(s,3H),3.48(s,3H),3.96(s,3H),7.40(d,J=8.9Hz,2H),7.54(d,J=8.9Hz,2H) IR(KBr)1446,1426,1409,1370,1362,1184,1153,1029,973,920,870,849,776cm^{-1}
III-6	Tokyo Kasei Kogyo Co., Ltd.
III-7	^{1}HNMR($CDCl_3$) δ :3.51(s,3H),3.92(s,3H),6.05(s,2H),6.92(d,J=8.1Hz,1H),7.02(d,J=8.1Hz,1H),7.07(s,1H),7.18(s,1H),10.40(s,1H) IR(KBr)1691,1600,1577,1474,1447,1422,1388,1352,1252,1237,1227,1201,1134,1124,1082,1038cm^{-1}
III-8	^{1}HNMR($CDCl_3$) δ 3.20(s,3H),3.77(s,3H),3.90(s,3H),6.86(s,1H),6.98(s,1H),7.32-7.37(m,2H),7.51-7.56(m,2H)
III-9	HNMR($CDCl_3$) δ 3.20(s,3H),3.34(s,3H),7.37-7.47(m,3H),7.53-7.63(m,3H),7.71(d,J=2.1Hz,1H)
III-10	^{1}HNMR($CDCl_3$) δ 3.76(s,3H),3.90(s,3H),6.85(s,1H),6.97(s,1H),7.08-7.15(m,2H),7.42-7.49(m,2H)
III-11	oil ^{1}HNMR($CDCl_3$) δ 2.72(s,3H),3.11(s,3H),3.75(s,3H),3.92(s,3H),5.17(s,2H),7.05-7.16(m,2H),7.24-7.50(m,2H).

Table 2

III-12	oil ^{1}HNMR($CDCl_3$) δ 3.51(s,3H),3.70(s,3H),3.86(s,3H),3.89(s,3H),5.28(s,2H),6.65(s,1H),6.97&7.47(ABq,J=8.6Hz,4H)
III-13	m.p.120-122℃ ^{1}HNMR($CDCl_3$) δ 3.20(s,3H),3.53(s,3H),3.70(s,3H),3.89(s,3H),5.28(s,2H),6.63(s,1H),7.32-7.37(m,2H),7.56-7.61 (m,2H) IR(KBr)1505,1468,1427,1375,1237,1175,1153,1100,1072,1003,972cm^{-1}
III-14	m.p.146-147℃ ^{1}HNMR($CDCl_3$) δ 3.85(s,3H),6.94-7.01(m,2H),7.38-7.56(m,6H) IR(KBr)1603,1522,1481,1288,1255,1036cm^{-1}
III-15	^{1}HNMR($CDCl_3$) δ 3.07(s,6H),3.49(s,3H),3.92(s,3H),6.95(brs,2H),7.20(s,1H)7.51(d,J=8.7Hz,2H),10.42(s,1H)
III-16	^{1}HNMR($CDCl_3$) δ 3.48(s,3H),3.50(s,3H),3.92(s,3H),6.81(s,1H),7.70(s,4H)
III-17	^{1}HNMR($CDCl_3$) δ 3.24(s,3H),3.49(s,3H),3.94(s,3H),7.21(s,1H),7.42(d,J=8.4Hz,2H),7.65(d,J=8.4Hz,2H),10.41(s,1H)
III-18	m.p.88-89℃ ^{1}HNMR($CDCl_3$) δ 2.20(s,3H),2.38(s,3H),3.19(s,3H),7.06(s,1H),7.33(s,4H),7.45(s,1H) IR(KBr)1479,1366,1195,1173,1151,970,865,850,796cm^{-1}
III-19	m.p.72-73℃ ^{1}HNMR($CDCl_3$) δ 3.20(s,3H),7.20(dd,J=6.6,8.4Hz,1H),7.35-7.44(m,3H),7.53-7.60(m,2H) IR(KBr)1514,1481,1364,1335,1182,1144,979,870,798cm^{-1}
III-20	m.p.144-146℃ ^{1}HNMR($CDCl_3$) δ 3.45(s,3H),3.89(s,3H),4.99(brs,2H),6.19(s,1H),6.42(s,1H),6.88-6.94(m,2H),7.44-7.49(m,2H) IR(KBr)3471,3392,29863,1612,1596,1461,1410,1223,1175,1099,1079,1011cm^{-1}

Table 3

III-21	oil ^{1}HNMR($CDCl_3$) δ 1.09(t,J=7.5Hz,3H),1.82-1.94(m,2H),3.58(s,3H),3.86(s,3H),4.06(t,J=6.6Hz,2H),6.63(s,1H),6.94-6.99(m,2H),7.44-7.49(m,2H) IR(film):3100-2800(br),1609,1583,1513,1466,1423,1401,1378,1291,1249,1232,1178,1127,1097,1034,1012cm^{-1}
III-22	m.p.83.5-84.5℃ ^{1}HNMR($CDCl_3$) δ 3.20(br,1H),3.54(s,3H),3.85-3.90(m,2H),3.86(s,3H),3.90(s,3H),4.29-4.32(m,2H),6.66(s,1H),6.95-7.00(m,2H),7.45-7.50(m,2H) IR(KBr)3600-2800(br),1608,1583,1513,1467,1441,1421,1398,1365,1290,1247,1178,1133,1097,1079,1028,1007cm^{-1}
III-23	m.p.99-101℃ ^{1}HNMR($CDCl_3$) δ 3.20(s,3H),3.39(s,3H),3.91(s,3H),3.99(s,3H),6.89(s,1H),7.37(d,J=8.7Hz,2H),7.64(d,J=8.7Hz,2H) IR(KBr)1747,1466,1367,1348,1153,1059,968,859,794cm^{-1}
III-24	^{1}HNMR($CDCl_3$) δ 3.22(s,3H),3.45(s,3H),3.94(s,3H),7.04(s,1H),7.32-7.43(m,2H),7.58-7.69(m,2H),10.42(s,1H)
III-25	^{1}HNMR($CDCl_3$) δ 2.46(broad,1H),3..21(s,3H),3.43(s,3H),3.90(s,3H),4.94(s,2H),6.83(s,1H),7.42-7.51(m,2H),7.57-7.68(m,2H)
III-26	m.p.109-110℃ ^{1}HNMR($CDCl_3$) δ 1.97(br,1H),3.21(t,J=6.6Hz,2H),3.86(s,3H),3.89(s,3H),3.90(t,J=6.9Hz,2H),6.76(s,1H),6.95-7.00(m,2H),7.49-7.53(m,2H) IR(KBr)3600-2800(br),1609,1581,1511,1462,1441,1426,1385,1289,1250,1237,1179,1116,1078,1046,1031,1005cm^{-1}
III-27	foam ^{1}HNMR($CDCl_3$) δ 1.52(s,9H),3.20(s,3H),3.41(s,3H),3.90(s,3H),6.16(s,1H),6.76(s,1H),7.35(d,J=8.7Hz,2H),7.61(d,J=8.7Hz,2H) IR(KBr)3371,1718,1505,1497,1367,1241,1151,872cm^{-1}

Table 4

III-28	m.p.167-170℃ ^{1}HNMR($CDCl_3$) δ 2.73(s,3H),3.74(s,3H),3.92(s,3H),7.08-7.17(m,3H),7.31-7.36(m,2H) IR($CHCl_3$)2934,1593,1560,1512,1477,1436,1411,1372,1157,1107,1076,997,958,892,839,815cm^{-1}
III-29	m.p.140-142℃ ^{1}HNMR($CDCl_3$) δ 3.27(s,3H),3.79(s,3H),3.90(s,3H),6.86(s,1H),6.97(s,1H),7.29(ddd,J=8.4,2.2,0.9Hz,1H),7.39(dd,J=11.0,2.2Hz,1H),7.43(t,J=8.4Hz,1H) IR(KBr)1504,1421,1344,1225,1208,916,824cm^{-1}
III-30	^{1}HNMR($CDCl_3$) δ 3.77(s,3H),3.91(s,3H),3.95(s,3H),6.87(s,1H),7.01(s,1H),7.56(d,J=8.1Hz,2H),8.09(d,J=8.1Hz,2H)
III-31	^{1}HNMR($CDCl_3$) δ 3.78(s,3H),3.91(s,3H),6.88(s,1H),6.97(s,1H),7.60(d,J=8.1Hz,2H),7.71(d,J=8.1Hz,2H)
III-32	m.p.147-148℃ ^{1}HNMR($CDCl_3$) δ 3.79(s,3H),3.92(s,3H),6.89(s,1H),7.01(s,1H),7.64-7.69(m,2H),8.26-8.31(m,2H) IR(KBr)3600-2800(br),1595,1511,1490,1422,1354,1249,1215,1145,1106,1032cm^{-1}
III-33	^{1}HNMR($CDCl_3$) δ 3.31(s,3H), 3.53(s,3H), 3.94(s,3H), 7.19(s,1H), 7.39(ddd,J=8.3,2.3,1.0Hz,1H), 7.39(dd,J=10.3,2.3Hz,1H), 7.43 (t,J=8.3Hz, 1H), 10.40(s,1H)
III-34	^{1}HNMR($CDCl_3$) δ 0.13(s,6H),0.97(s,9H),2.51(s,3H),3.73(s,3H),3.93(s,3H),5.09(s,2H),6.84-6.99(m,2H),6.89(s,1H),7.05(s,1H),7.29-7.48(m,5H)
III-35	m.p.124-128℃ ^{1}HNMR($CDCl_3$) δ 2.62(s,3H),3.74(s,3H),3.91(s,3H),5.19(s,2H),7.00-7.18(m,4H),7.30-7.49(m,5H) IR($CHCl_3$)2930,1607,1517,1480,1369,1148,1118,1082,1025,969,872cm^{-1}

Table 5

III-36	oil ^{1}HNMR($CDCl_3$) δ 0.13(s,6H),0.96(s,3H),3.01(s,3H),3.69(s,3H),3.86(s,3H),4.81(s,2H),5.08(s,2H),6.88-6.94(m,3H),7.30-7.47(m,5H) IR(KBr)3023,2932,2858,1579,1512,1471,1381,1264,1120,1083cm^{-1}
III-37	oil ^{1}HNMR($CDCl_3$) δ 0.78(t,J=7.5Hz,3H),1.03-1.25(m,2H),1.38-1.47(m,2H),3.68-3.72(m,2H),3.70(s,3H),3.86(s,6H),5.15(s,2H),5.63(s,1H),6.81(dd,J=1.8,8.4Hz,1H),6.86(s,1H),6.95-6.97(m,2H),7.36-7.46(m,5H) IR(CH_3Cl):3543,3200-2800(br),1587,1511,1465,1412,1376,1285,1248,1118,1081,1031cm^{-1}
III-38	m.p.104-105℃ ^{1}HNMR($CDCl_3$) δ 3.11(s,3H),3.77(s,3H),3.90(s,3H),5.17(s,2H),6.84(s,1H),6.98(s,1H),7.11(d,J=8.7Hz,1H),7.37-7.48(m,6H),7.51(d,J=2.4Hz,1H) IR(KBr)3600-2800(br),1503,1420,1389,1364,1246,1215,1185,1132,1117,1097,1030cm^{-1}
III-39	m.p.134-136℃ ^{1}HNMR($CDCl_3$) δ 3.78(s,3H),3.91(s,3H),5.29(s,2H),6.86(s,1H),6.97(s,1H),7.17(d,J=8.7Hz,1H),7.31-7.51(m,7H),7.63(dd,J=2.4,8.7Hz,1H),8.01(d,J=2.4Hz,1H) IR(KBr)3434,1620,1532,1494,1413,1280,1222,1206,1133,1108,1037cm^{-1}
III-40	m.p.100-101℃ ^{1}HNMR($CDCl_3$) δ 3.55(s,3H),3.77(s,3H),3.90(s,3H),5.26(s,2H),6.84(s,1H),6.97(s,1H),7.16-7.31(m,3H) IR(KBr)3600-2800(br),1524,1503,1449,1401,1380,1268,1246,1222,1200,1156,1126,1098,1078,1030cm^{-1}
III-41	m.p.109-110℃ ^{1}HNMR($CDCl_3$) δ 1.54(s,9H),3.76(s,3H),3.90(s,3H),6.75(br,1H),6.84(s,1H),6.97(s,1H),7.21-7.29(m,2H),8.13(t,J=8.7Hz,1H) IR(KBr)3600-2800(br),1720,1593,1531,1509,1427,1393,1245,1223,1214,1201,1162,1137,1105,1029cm^{-1}

Table 6

III-42	foam ^{1}HNMR(CDCl$_3$) δ 2.36(s,3H),3.74(s,3H),3.88(s,3H),6.69(dd,J=0.6,3.6Hz,1H),6.85(s,1H),6.99(s,1H),7.24-7.27(m,2H),7.23(dd,J=1.8,8.7Hz,1H),7.60(d,J=3.6Hz,1H),7.64(d,J=1.2Hz,1H),7.80-7.83(m,2H),8.02(d,J=8.4Hz,1H) IR(KBr)3600-2800(br),1508,1463,1444,1421,1373,1246,1216,1176,1132,1093,1038cm^{-1}
III-43	foam ^{1}HNMR(CDCl$_3$) δ 3.14(s,3H),3.51(s,3H),3.93(s,3H),5.20(s,2H),7.17(d,J=8.4Hz,1H),7.20(s,1H),7.38(m,6H),7.59(d,J=1.8Hz,1H),10.40(s,1H) IR(CHCl$_3$)2941,1703,1613,1603,1580,1513,1475,1426,1372,1295,1264,1169,1137,1112,1088,1044,971,954,932,838cm^{-1}
III-44	^{1}HNMR(CDCl$_3$) δ 0.20(s,6H),0.13(s,6H),0.77(s,9H),0.97(s,9H),3.73(s,3H),3.83(s,3H)),5.08(s,2H),6.06(s,2H),6.88-6.96(m,3H),7.01(s,1H),7.30-7.49(m,5H)
III-45	mp 106-108℃ ^{1}HNMR (CDCl$_3$) δ 3.21(s,3H),3.43(s,3H),3.94(s,3H),5.87(s,1H),7.39(d,J=9.0Hz,2H),7.55(d,J=9.0Hz,2H) IR(KBr)3410,1460,1422,1362,1146,1037,874,915,787cm^{-1}
III-46	mp123-124℃ ^{1}HNMR(CDCl$_3$) δ 2.48(brs, 1H), 3.21(s, 3H), 3.43(s, 3H), 3.94(s, 3H), 4.93(brs, 2H), 6.83(s, 1H), 7.37(d, J=9.0Hz, 2H), 7.63(d, J=9.0Hz, 2H) IR(KBr)3524,1463,1352,1233,1152,1009,979,869cm^{-1}
III-47	mp107-109℃ ^{1}HNMR(CDCl$_3$) δ 1.93(s,6H),2.45(s,6H),4.75(brs,1H),6.87-6.96(m,4H) IR(KBr)3367,1612,1509,1433,1214,990,824cm^{-1}

Table 7

III-48	oil ^{1}HNMR($CDCl_3$) δ 1.14(t, J=6.9Hz, 3H), 1.46(t,J=6.9Hz, 3H), 3.58(q,J=6.9Hz, 2H), 3.58(q,J=6.9Hz, 2H), 6.19(s,1H), 6.41(s,1H), 6.86-6.92 (m,2H), 7.43-7.49(m,2H) IR($CHCl_3$)3688,3594,3502,2982,1612,1517,1172,1080,1026,925cm^{-1}
III-49	^{1}HNMR($CDCl_3$) δ 0.02(s,6H),0.12(s,6H),0.90(s,9H),0.93(s,9H),4.54(s,2H),4.76(s,2H),6.84-6.89(m,2H),7.16-7.22(m,2H),7.37(s,1H),7.69(s,1H)
III-50	mp173-175℃ ^{1}HNMR($CDCl_3$) δ 3.21(s,3H),3.47(s,3H),3.89(s,3H),6.15(s,1H),6.42(s,1H),7.24-7.37(m,2H),7.61-7.66(m,2H) IR(KBr)3408,2934,1604,1480,1360,1146,1089,1004,865,709,547cm^{-1}
III-51	mp156-158℃ ^{1}HNMR($CDCl_3$) δ 3.21(s,3H),3.39(s,3H),3.90(s,3H),6.05(s,1H),7.36-7.44(m,4H) IR(KBr)3410,2938,1505,1457,1413,1337,1194,1143,1084,1014,876,826,542,519cm^{-1}
III-52	mp181-183℃ ^{1}HNMR($CDCl_3$) δ 3.19(s,3H),3.88(s,3H),4.21-4.24(m,2H),4.39-4.42(m,2H),6.49(s,1H),7.45(ABq,J=8.7Hz,4H) IR(KBr)3435,1598,1505,1474,1425,1366,1178,1147,1113cm^{-1}
III-53	mp155-157℃ ^{1}HNMR($CDCl_3$) δ -0.11-0.02(m,2H),0.33-0.44(m,2H), 0.91(m,1H), 3.20(s,3H), 3.41(d,J=7.0Hz,2H), 3.50(s,3H),3.92(s,3H), 6.88 (s, 1H), 7.51(ABq,J=8.6Hz,4H) IR(KBr)3434,1505,1472,1416,1386,1371,1357,1242,1179,1149,1084cm^{-1}
III-54	mp105-107℃ ^{1}HNMR($CDCl_3$) δ 3.20(s,3H),3.39(s,3H),3.89(s,3H),4.77(s,2H),6.40(s,1H),7.33-7.55(m,5H) IR(KBr)3411,1592,1572,1507,1482,1467,1437,1360,1339,1232,1204,1175,1148,1125,1092cm^{-1}

Table 8

III-55	mp138-140℃ ^{1}HNMR(CDCl$_3$) δ 1.14(t,J=7.0Hz,3H), 3.59(q,J=7.0Hz,2H), 3.88(s,3H), 4.97(bs,1H), 6.42(s,1H), 6.86-6.94(m,2H), 7.43-7.51 (m,2H) IR(KBr)3384,3291,2978,1614,1593,1576,1519,1484,1469,1455,1436,1417,1366,1306,1285,1257,1203,1171,1127,1094,1029cm^{-1}
III-56	mp162-164℃ ^{1}HNMR(CDCl$_3$) δ 2.77(s,3H),3.17(s,3H),3.75(s,3H),3.92(s,3H),7.10(s,2H),7.35-7.43(m,4H) IR(CHCl$_3$)1594,1561,1507,1478,1464,1374,1331,1178,1149,1109,1080,1000,970,894,871,844cm^{-1}
III-57	mp95-97℃ ^{1}HNMR(CDCl$_3$) δ 2.35(s,3H),3.77(s,3H),6.84-6.87(m,2H),7.12(s,1H),7.13(s,1H),7.35-7.38(m,2H) IR(CHCl$_3$)3596,2959,2939,2840,1611,1563,1517,1489,1464,1438,1384,1367,1329,1295,1258,1173,1102,1049,1035,1001,911, 891,835cm^{-1}
III-58	mp173-175℃ ^{1}HNMR(CDCl$_3$) δ 6.91-6.94(m,2H),7.31-7.34(m,2H),7.87(s,1H),8.09(s,1H),9.89(s,1H),10.28(s,1H) IR(CHCl$_3$)3437,1685,1610,1516,1456,1394,1370,1270,1261,1238,1214,1173,1144,1053,1012,939,905,829,808,557,458cm^{-1}
III-59	mp173-175℃ ^{1}HNMR(CDCl$_3$) δ 1.10(t,J=6.9Hz,3H), 1.48(t,J=6.9Hz,3H), 3.20(s,3H), 3.47(s,3H), 3.66(q,J=6.9Hz,2H), 4.11(q,J=6.9Hz,2H), 6.79 (s,1H), 7.32-7.39(m,2H),7.60-7.66(m,2H) IR(CHCl$_3$)1502,1458,1372,1176,1148,1074,1023,967,870cm^{-1}
III-60	^{1}HNMR(CDCl$_3$) δ 2.17(s,3H),2.39(s,3H),3.19(s,3H),5.80(s,1H),6.71(s,1H),7.33(s,4H)

Table 9

III-61	mp107-108℃ ^{1}HNMR($CDCl_3$) δ 3.21(s,3H),3.79(s,3H),4.04(s,3H),7.39(d,J=8.9Hz,2H),7.57(d,J=8.9Hz,2H),7.68(s,1H),10.17(s,1H) IR(KBr)1704,1422,1358,1224,1148,1090,1026,974,876cm^{-1}
III-62	mp121-122℃ ^{1}HNMR($CDCl_3$) δ 3.45(s,3H), 3.47(s,3H), 3.93(s,3H), 4.68(s,2H), 4.77(s,2H), 7.22(s,1H), 7.49(d,J=8.1Hz,2H), 7.56(d, J=8.1Hz, 2H), 10.42 (s,1H) IR(KBr)1695,1476,1422,1232,1189,1130,1040,860cm^{-1}
III-63	mp113-115℃ ^{1}HNMR($CDCl_3$) δ 2.18(s,3H),3.22(s,3H),3.89(s,3H),6.85(s,1H),7.11(s,1H),7.36(s,4H) IR(KBr)1497,1413,1354,1230,1146,1097,976,864cm^{-1}
III-64	^{1}HNMR($CDCl_3$) δ 5.65(s,1H),7.18(s,1H),7.30-7.35(m,2H),7.46-7.50(m,3H)
III-65	^{1}HNMR($CDCl_3$) δ :1.30(d,J=7.2Hz,6H),2.96(quintet,J=7.2Hz,1H),3.82(s,3H),3.91(s,3H),5.92(brs,2H),6.91(s,1H),7.30(d,J=8.1 Hz,2H),7.44(s,1H),7.49(d,J=8.1Hz,2H)
III-66	mp118-122℃ ^{1}HNMR($CDCl_3$) δ 3.80(s,3H),3.91(s,3H),5.88(s,2H),6.84-6.92(m,3H),7.39-7.47(m,3H) IR(KBr)3600-2800(br),1606,1517,1492,1461,1415,1397,1330,1265,1205,1171,1052cm^{-1}
III-67	mp227-230℃ ^{1}HNMR($CDCl_3$) δ 0.25(s,6H),1.02(s,9H),2.33(s,3H),2.82(s,2H),6.88-6.93(m,2H),7.16(s,1H),7.21-7.25(m,3H),8.11(s,1H) IR(KBr)3600-2800(br),1608,1514,1393,1346,1267,1167cm^{-1}
III-68	mp134-137℃ ^{1}HNMR($CDCl_3$) δ 3.00(s,6H),3.81(s,3H),3.91(s,3H),6.00(s,2H),6.77-6.82(m,2H),6.90(s,1H),7.41(s,1H),7.46-7.51(m,3H) IR(KBr)3600-2800(br),1601,1528,1494,1466,1439,1399,1362,1321,1198,1166,1118,1051cm^{-1}

Table 10

III-69	mp144-148℃ ^{1}HNMR($CDCl_3$) δ 2.38(s,3H),2.82(s,3H),3.01(s,6H),7.79-7.83(m,2H),7.18(s,1H),7.27-7.31(m,2H),8.11(s,1H) IR(KBr)3600-2800(br),1612,1523,1443,1389,1328,1271,1160cm^{-1}
III-70	mp122-126℃ ^{1}HNMR($CDCl_3$) δ 0.10(s,9H), 0.78(s,6H), 2.96(s,6H), 3.75(s,3H), 3.84(s,3H), 6.08(s,2H), 6.72-6.78(m,2H), 7.01(s,1H), 7.22-7.29 (m, 2H) IR(KBr)3600-2800(br),1613,1528,1463,1416,1402,1360,1345,1251,1218,1195,1136,1092,1062,991cm^{-1}
III-71	^{1}HNMR($CDCl_3$) δ 2.21(s,3H),2.37(s,3H),3.89(s,3H),5.19(s,2H),6.75(d.d,J=8.4&2.1Hz,1H),6.81(d,J=2.1Hz,1H),6.92(d,J=8.4Hz,1H),7.08(s,1H),7.30-7.50(m,6H)
III-72	oil ^{1}HNMR($CDCl_3$) δ 2.51(s,6H), 2.75(s,6H), 5.15(s,2H), 5.67(s,1H), 6.94(s,1H), 6.96(d,J=8.4Hz,1H), 7.04(dd,J=2.1,8.4Hz,1H), 7.18 (s, 1H), 7.20(d,J=2.1Hz,1H),7.37-7.47(m,5H) IR($CHCl_3$)3032,3428,3000-2800(br),1730,1611,1525,1489,1455,1256,1171,1137,1100,1036cm^{-1}
III-73	^{1}HNMR($CDCl_3$) δ 2.21(s,3H),2.37(s,3H),5.15(s,2H),5.69(br,1H),6.73(dd,J=8.4,1.8Hz,1H),6.89-6.99(m,2H),7.07(s,1H),7.26-7.46(m,6H)
III-74	^{1}HNMR($CDCl_3$) δ 1.09(t,J=7.2Hz,3H), 1.22(t,J=7.5Hz,3H), 2.55(q,J=7.2Hz,2H), 2.72(q,J=7.5Hz,2H), 5.15(s,2H), 5.70(s,1H), 6.73 (dd, J=8.4,1.8Hz,1H), 6.89(d,J=1.8Hz,1H),6.95(d,J=8.4Hz,1H),7.04(s,1H),7.38-7.47(m,6H) IR($CHCl_3$)3542,2970,2933,1586,1508,1480,1384,1324,1290,1160,1127,1064,1011,930,898,879,857cm^{-1}
III-75	^{1}HNMR($CDCl_3$) δ 2.04(s,3H),3.70(s,3H),3.90(s,3H),5.19(s,2H),5.50(m,1H),6.73(dd,J=2.1Hz,1H),6.97-7.00(m,2H),7.29-7.48(m,5H)

Table 11

III-76	^{1}HNMR($CDCl_3$) δ 2.04(s,3H),3.90(s,3H),5.15(s,2H),5.49(s,1H),5.74(s,1H),6.71(dd,J=8.1,2.1Hz,1H),6.85(d,J=2.1Hz,1H),6.99-7.03 (m, 2H), 7.39-7.45(m,5H) IR($CHCl_3$)3529,2963,2940,1731,1587,1566,1510,1480,1455,1412,1382,1323,1290,1248,1128,1099,1009,935,879cm^{-1}
III-77	mp87-89℃ ^{1}HNMR($CDCl_3$) δ 2.20(s,3H),2.37(s,3H),5.18(s,2H),6.90-7.10(m,4H),730-7.51(m,6H) IR($CHCl_3$)1510,1482,1381,1298,1267,1233,1127,1008,952,875,812cm^{-1}
III-78	^{1}HNMR($CDCl_3$) δ 1.25(d,J=6.9Hz,6H), 2.24(s,3H), 3.26(sept,J=6.9Hz,1H), 5.20(s,2H), 6.95(ddd,J=8.3,2.2,1.2Hz,1H), 7.06 (t, J=8.3Hz, 1H), 7.06(dd,J=11.9,2.2Hz,1H),7.10(s,1H),7.17(s,1H),7.32-7.51(m,5H) IR(KBr)1492,1420,1228,1203,1140,1012,989,841cm^{-1}
III-79	^{1}HNMR($CDCl_3$) δ 2.43(s,3H),5.19(s,2H),7.06(t,J=8.9Hz,1H),7.18-7.48(m,10H) IR(KBr)1491,1437,1214,1135,890,810,748cm^{-1}
III-80	mp77-79℃ ^{1}HNMR($CDCl_3$) δ 3.921(s,3H),5.21(s,2H),6.90-6.99(m,3H),7.31-7.50(m,7H) IR(KBr)3600-2800(br),1518,1477,1418,1237,1212,1167,1140cm^{-1}
III-81	mp103-105℃ ^{1}HNMR($CDCl_3$) δ 2.16(s,3H),2.37(s,3H),2.42(s,3H),3.16(m,3H),5.21(s,2H),7.16-7.17(m,3H),7.24-7.27(m,1H),7.36-7.48(m,5H) IR($CHCl_3$)2940,1613,1514,1478,1455,1423,1366,1331,1292,1264,1176,1140,1126,1096,1045,1009,972,955,920,843cm^{-1}
III-82	^{1}HNMR($CDCl_3$) δ 2.19(s,3H),3.88(s,3H),5.20(s,2H),6.84(s,1H),6.95(m,1H),7.03-7.05(m,3H),7.35-7.49(m,5H)
III-83	mp83-85℃ ^{1}HNMR($CDCl_3$) δ 2.19(s,3H), 3.88(s,3H), 3.91(s,3H), 5.21(s,3H), 6.76(dd,J=8.4,2.1Hz,1H), 6.82(d,J=2.1Hz,1H), 6.87(s,1H), 6.93(d, J=8.4Hz, 1H), 7.08(s,1H),7.32-7.50(m,5H) IR($CHCl_3$)2962,2937,1613,1579,1499,1464,1455,1443,1421,1319,1249,1170,1140,1103,1029,1008,989,901,832cm^{-1}

Table 12

III-84	oil ^{1}HNMR($CDCl_3$) δ 1.44(d,J=6.9Hz,3H),2.19(s,3H),4.09(q,J=6.9Hz,2H),5.20(s,2H),6.82(s,1H),6.94-7.08(m,3H),7.32-7.49(m,6H) IR($CHCl_3$)3597,2928,1731,1609,1523,1494,1476,1387,1298,1261,1173,1127,1048,834cm^{-1}
III-85	^{1}HNMR($CDCl_3$) δ 2.26(s,3H),2.52(s,3H),3.90(s,3H),4.59(brs,2H),5.20(s,2H),6.73-7.10(m,4H),7.27-7.52(m,6H)
III-86	^{1}HNMR($CDCl_3$) δ 2.33(s,3H),2.81(s,3H),4.60(brs,2H),5.20(s,2H),6.92-7.18(m,4H),7.30-7.52(m,6H)

Table 13

I-1	m.p.155.5-156℃ ^{1}HNMR(acetone-d_6) δ 1.77(brs,3H),1.79(brs,3H),3.37(s,3H),3.73(s,3H),4.63(brd,J=6.6Hz,2H),5.52(m,1H),6.49(1H,s),6.83(dd,J=2.2and8.2Hz,1H),6.92(d,J=2.2Hz,1H),6.94(m,2H),6.96(d,J=8.2Hz,1H),7.54(m,2H),7.62(brs,1H),7.78(s,1H),8.64(brs,1H) IR(KBr)3393,2932,1611,1588,1522,1490,1117,1071,1001cl-3m ^{1}
I-2	^{1}HNMR($CDCl_3$) δ 2.67(s,3H),3.13(s,3H),3.21(s,3H),3.56(s,3H),3.78(s,3H),5.19(s,2H),6.84(s,1H),7.15(d,J=8.6Hz,1H),7.30-7.50(m,9H),7.60-7.75(m,2H) IR(KBr)1373,1361,1179,1149,1079,874,799cm ^{1}
I-3	m.p.155-157℃ ^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.81(s,3H),2.71(s,3H),3.21(s,3H),3.23(s,3H),3.56(s,3H),3.78(s,3H),4.64(d,J=6.6Hz,2H),5.43-5.55(m,1H),6.84(s,1H),7.09(d,J=8.4Hz,1H),7.30-7.42(m,4H),7.65-7.75(m,2H) IR(KBr)1519,1481,1364,1179,1153,1083,970,877,796cm^{-1}
I-4	^{1}HNMR($CDCl_3$) δ 3.45(s,3H),3.75(s,3H),5.16(s,2H),6.44(s,1H),6.92-7.19(m,5H),7.34-7.44(m,5H),7.57-7.66(m,2H) IR(KBr)3538,3510,3460,3330,1605,1521,1490,1455,1247,1220,1120,1070,1010cm^{-1}
I-5	m.p.136-138℃ ^{1}HNMR($CDCl_3$) δ 2.68(s,3H),3.13(s,3H),3.55(s,3H),3.80(s,3H),5.19(s,2H),6.86(s,1H),7.16(d,J=8.7Hz,1H),7.33-7.49(m,7H),7.55-7.69(m,2H),7.82-7.87(m,2H) IR(KBr)3433,2937,1609,1519,1474,1463,1364,1322,1295,1274,1235,1183,1167,1120,1095,1077,1016cm^{-1}
I-6	foam ^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.81(s,3H),2.72(s,3H),3.24(s,3H),3.49(s,3H),3.80(s,3H),4.64(d,J=6.9Hz,2H),5.50(m,1H),6.86(s,1H),7.10(d,J=8.7Hz,1H),7.35(dd,J=2.1,8.7Hz,1H),7.39(d,J=2.1Hz,1H),7.55-7.69(m,2H),7.82-7.87(m,2H). IR($CHCl_3$)3030,1608,1518,1480,1369,1322,1269,1230,1179,1131,1120,1097,1081,1015cm^{-1}

Table 14

I-7	m.p.92-94℃ ^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.82(s,3H),3.46(s,3H),3.77(s,3H),4.62(d,J=6.9Hz,2H),5.31(m,1H),5.71(s,1H),5.85(s,1H),6.47(s,1H),6.93(dd,J=1.8,8.7Hz,1H),6.97(d,J=8.7Hz,1H),7.05(d,J=1.8Hz,1H),7.55-7.65(m,2H),7.83-7.91(m,2H). IR(KBr)3466,2939,1609,1587,1518,1498,1486,1464,1437,1406,1361,1324,1245,1216,1155,1125,1073cm^{-1}
I-8	^{1}HNMR($CDCl_3$) δ 3.22(s,3H),3.45(s,3H),3.77(s,3H),4.74(s,2H),5.15(s,2H),6.93(s,1H),7.01(d,J=8.7Hz,2H),7.32-7.48(m,9H),7.73(d,J=9.0Hz,2H) IR(KBr)3400,1721,1612,1509,1471,1362,1242,1153,1040,1018cm^{-1}
I-9	^{1}HNMR($CDCl_3$) δ 1.03(t,J=7.2Hz,3H),2.16(dq,J=7.2,6.0Hz,2H),3.46(s,3H),3.74(s,3H),4.68(d,J=5.4Hz,2H),5.70(m,2H),6.45(s,1H),6.91(d,J=8.7Hz,2H),6.96(brs,2H),7.07(brs,1H),7.53(d,J=8.7Hz,2H) IR(Nujol)3445,3369,1612,1578,1523,1489,1268,1243,1112,1102,1071,1011,998,944,824,805,781cm^{-1}
I-10	m.p.174-175℃ ^{1}HNMR($CDCl_3$) δ 3.11(s,3H),3.21(s,3H),3.45(s,3H),3.73(s,3H),4.49(brs,2H),5.18(s,2H),6.85(s,1H),7.15(d,J=8.4Hz,1H),7.27(dd,J=8.4Hz,J=2.1Hz,1H),7.35-7.49(m,8H),7.70(m,2H) IR(KBr)1519,1467,1360,1346,1331,1295,1272,1229,1180,1151,1122,1101,1081,1022,980,971,954,875,849,814,798,742,525cm^{-1}
I-11	^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.82(s,3H),3.22(s,6H),3.45(s,3H),3.74(s,3H),4.49(brs,2H),4.64(d,J=7.2Hz,2H),5.45-5.55(m,1H),6.85(s,1H),7.08(d,J=8.7Hz,1H),7.26(dd,J=8.7and2.1Hz,1H),7.33(d,J=2.1Hz,1H),7.36-7.41(m,2H),7.65-7.75(m,2H) IR(KBr)3553,3434,1516,1472,1365,1176,1150,973,871cm^{-1}
I-12	^{1}HNMR(DMSO-d_6) δ 1.72(s,3H),1.77(s,3H),3.35(s,3H),3.65(s,3H),4.20(brs,2H),4.47(brt,J=4.4Hz,1H),4.55(brd,J=6.6Hz,2H),5.40-5.57(m,1H),6.64(dd,J=8.2,2.0Hz,1H),6.70(d,J=2.0Hz,1H),6.75-7.00(m,4H),7.40-7.55(m,2H) IR(KBr)3435,1518,1475,1459,1261,1223,988cm^{-1}

Table 15

I-13	^{1}HNMR($CDCl_3$) δ 2.71(s,3H),2.84(s,3H),3.20(s,3H),3.42(s,3H),3.76(s,3H),5.13(s,2H),5.67(s,1H),6.90(s,1H),6.89-6.96(m,2H),7.00(m,J=1.8Hz,1H),7.32-7.50(m,7H),7.70(d,J=9.0Hz,2H)
I-14	m.p.140-141℃ ^{1}HNMR($CDCl_3$) δ 2.71(s,3H),2.83(s,3H),3.15(s,3H),3.21(s,3H),3.42(s,3H),3.77(s,3H),5.16(s,2H),6.90(s,1H),7.09(d,J=8.9Hz,2H),7.30-7.50(m,9H),7.70(d,J=8.9Hz,2H) IR(KBr)1642,1516,1467,1362,1180,1151,1118,1050,867,803,708cm^{-1}
I-15	m.p.161-162℃ ^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.81(s,3H),2.72(s,3H),2.85(s,3H),3.21(s,3H),3.23(s,3H),3.42(s,3H),3.77(s,3H),4.61(d,J=6.6Hz,2H),5.49(t,J=6.6Hz,1H),6.90(S,1H),7.02(d,J=8.1Hz,1H),7.31-7.37(m,2H),7.38(d,J=8.9Hz,2H),7.70(d,J=8.9Hz,2H) IR(KBr)1643,1516,1467,1362,1277,1236,1180,1150,974,882,868,847,802,710 cm^{-1}
I-16	m.p.206-207℃ ^{1}HNMR($CDCl_3$) δ 1.71(s,3H),1.76(s,3H),2.62(s,3H),2.69(s,3H),3.27(s,3H),3.71(s,3H),4.53(d,J=6.8Hz,2H),5.47(t,J=6.6Hz,1H),6.61(dd,J=8.3and2.1Hz,1H),6.71(d,J=2.1Hz,1H),6.86(d,J=8.7Hz,2H),6.87(d,J=8.3Hz,1H),6.95(s,1H),7.47(d,J=8.7Hz,2H),8.83(brs,1H),9.59(brs,1H) IR(KBr)3427,3020,1608,1517,1467,1379,1233,1053,1005,839,799,759,543cm^{-1}
I-17	m.p.171-172℃ ^{1}HNMR(DMSO-d_6) δ 1.74(d,J=0.9Hz,3H),1.77(s,3H),2.97(s,3H),3.45(s,3H),3.51(s,3H),3.77(s,3H),4.65(d,J=6.6Hz,2H),5.48(m,1H),7.06-7.27(m,4H),7.48&7.74(ABq,J=9.0Hz,4H) IR(KBr)1523,1483,1394,1366,1271,1175,1151,1087,1071,872,861,847,796cm^{-1}
I-18	^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.80(s,3H),3.44(s,3H),3.76(s,3H),4.63(d,J=6.6Hz,2H),4.99(s,1H),5.48-5.62(m,1H),6.00(s,1H),6.45(s,1H),6.88-6.97(m,2H),7.04(dd,J=9.0,9.0Hz,1H),7.15-7.29(m,2H),7.45-7.60(m,2H) IR(KBr)3393,1523,1490,1466,1403,1267,1229,1113,1070cm^{-1}

Table 16

I-19	^{1}HNMR($CDCl_3$) δ 2.56(s,3H),3.21(s,3H),3.52(s,3H),3.69(s,3H),5.19(s,2H),5.76(s,1H),6.92(dd,J=8.4and2.0Hz,1H),7.04(d,J=8.4Hz,1H),7.05(d,J=2.0Hz,1H),7.35-7.51(m,7H),7.60(d,J=8.6Hz,2H)
I-20	^{1}HNMR($CDCl_3$) δ 2.69(s,3H),3.14(s,3H),3.21(s,3H),3.53(s,3H),3.71(s,3H),5.20(s,2H),7.18(d,J=8.7Hz,1H),7.34-7.50(m,9H),7.59(d,J=8.7Hz,2H)
I-21	m.p.94-95℃ ^{1}HNMR($CDCl_3$) δ 2.73(s,3H),3.21(s,3H),3.24(s,3H),3.53(s,3H),3.71(s,3H),4.65(d,J=6.9Hz,2H),5.50(t,J=6.9Hz,1H),7.12(d,J=8.6Hz,1H),7.36(dd,J=8.6and2.1Hz,1H),7.41(d,J=2.1Hz,2H),7.41(d,J=8.8Hz,2H),7.59(d,J=8.8Hz,2H) IR(KBr)1516,1367,1180,1152,1039,975,869,799cm^{-1}
I-22	m.p.148-150℃ ^{1}HNMR($CDCl_3$) δ 3.42(s,3H),3.65(s,3H),4.63(d,J=6.9Hz,2H),4.98(brs,1H),5.53(t,J=6.9Hz,1H),6.92-6.96(m,4H),7.07(s,1H),7.43(d,J=8.6Hz,2H) IR(KBr)3398,1612,1587,1523,1462,1410,1261,1211,1099,1036,984,952,919,838,815cm^{-1}
I-23	^{1}HNMR($CDCl_3$) δ 2.28(t,J=6.3Hz,1H),2.60(s,3H),3.21(s,3H),3.55(s,3H),3.77(s,3H),4.78(d,J=6.3Hz,2H),5.18(s,2H),6.84(s,1H),7.06(d,J=9.0Hz,1H),7.29-7.48(m,9H),7.69(d,J=8.7Hz,2H)
I-24	^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.81(s,3H),2.26(s,3H),2.50(s,3H),3.21(s,3H),3.56(s,3H),3.77(s,3H),4.57(d,J=6.2Hz,2H),5.51(t,J=6.2Hz,1H),6.83(s,1H),6.92(d,J=9.0Hz,1H),7.17-7.29(m,2H),7.36(d,J=8.7Hz,2H),7.70(d,J=8.7Hz,2H) IR(KBr)3434,1608,1512,1479,1364,1234,1175,1150,1078,1017cm^{-1}
I-25	^{1}HNMR($CDCl_3$) δ 1.75(s,3H),1.80(s,3H),2.27(s,3H),3.46(s,3H),3.74(s,3H),4.57(d,J=6.2Hz,2H),4.95(s,1H),5.53(t,J=6.2Hz,1H),5.86(s,1H),6.45(s,1H),6.91(d,J=8.7Hz,2H),6.92(d,J=9.0Hz,1H),7.24(d,J=9.0Hz,1H),7.26(s,1H),7.53(d,J=8.7Hz,2H) IR(KBr)3399,1612,1566,1581,1520,1486,1237,1115,1078,1001cm^{-1}

Table 17

I-26	m.p.246-247℃ ^{1}HNMR(DMSO-d_6) δ 5.16(s,3H),6.84-6.87(m,2H),7.05(s,2H),7.14(s,1H),7.32-7.43(m,3H),7.49-7.64(m,8H) IR(KBr)3600-3100(br),1594,1453,1387,1296,1253,1010cm^{-1}
I-27	^{1}HNMR(DMSO-d_6) δ 3.38(s,3H),3.43(s,3H),5.28(s,2H),7.36-7.54(m,8H),7.69-7.86(m,8H) IR(KBr)1488,1354,1286,1178,1151,1116cm^{-1}
I-28	m.p.162-163℃ ^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.82(s,3H),3.19(s,3H),3.23(s,3H),4.64(d,J=6.6Hz,2H),5.25-5.48(m,1H),7.09(d,J=9.0Hz,1H),7.36-7.40(m,2H),7.52(dd,J=2.4,9.0Hz,1H),7.59(d,J=2.4Hz,1H),7.62(s,4H),7.63-7.69(m,2H) IR(KBr)1489,1363,1290,1177,1154,1115,971,860,809cm^{-1}
I-29	m.p.195℃ ^{1}HNMR(DMSO-d_6) δ 1.72(s,3H),1.75(s,3H),4.57(d,J=6.3Hz,2H),5.45-5.50(m,1H),6.84-6.87(m,2H),6.98-7.11(m,3H),7.50-7.64(m,6H) IR(KBr)3600-3200(br),1609,1594,1497,1257,991cm^{-1}
I-30	m.p.145-148℃ ^{1}HNMR($CDCl_3$) δ 1.60-2.20(m,6H),2.72(s,3H),3.21(s,3H),3.24(s,3H),3.56(s,3H),3.78(s,3H),4.92(m,1H),5.88(m,1H),6.02(m,1H),6.84(s,1H),7.12(d,J=8.6Hz,1H),7.34-7.40(m,4H),7.69(m,2H) IR(KBr)1517,1481,1390,1362,1270,1244,1180,1151,1077,1012,973,960,873,817,799,521cm^{-1}
I-31	m.p.108-110℃ ^{1}HNMR($CDCl_3$) δ 1.60-2.20(m,6H),3.46(s,3H),3.75(s,3H),4.86(m,1H),5.02(bs,1H),5.75(s,1H),5.90(m,1H),5.91(s,1H),6.00(m,1H),6.45(s,1H),6.90-7.07(m,5H),7.53(m,2H) IR (KBr)3485,1614,1523,1491,1457,1407,1312,1287,1269,1238,1195,1170,1115,1072,1014cm^{-1}

Table 18

I-32	m.p.188-190℃ ^{1}HNMR($CDCl_3$) δ 2.69(s,3H),3.21(s,3H),3.26(s,3H),3.56(s,3H),3.78(s,3H),4.84(m,2H),6.42(dt,J=15.6Hz,J=5.7Hz,1H),6.79(d,J=15.6Hz,1H),6.84(s,1H),7.15(d,J=8.4Hz,1H),7.28-7.43(m,9H),7.68(m,2H) IR(KBr)1519,1479,1447,1391,1360,1301,1273,1241,1228,1201,1175,1152,1120,1079,1014,974,959,947,868,819,795,777,743,521cm^{-1}
I-33	m.p.157-159℃ ^{1}HNMR($CDCl_3$) δ 3.46(s,3H),3.75(s,3H),4.81(m,2H),4.93(bs,1H),5.70(s,1H),5.91(s,1H),6.45(s,1H),6.46(dt,J=15.9Hz,J=6.0Hz,1H),6.76(d,J=15.9Hz,1H),6.90-7.09(m,5H),7.26-7.46(m,5H),7.54(m,2H) IR(KBr)3466,1611,1522,1489,1461,284,1248,1192,1165,1114,1073cm^{-1}
I-34	m.p.127-129℃ ^{1}HNMR($CDCl_3$) δ 1.03and1.04(botht,bothJ=8.0Hz,total3H),2.07-2.19(m,2H),2.71and2.72(boths,total3H),3.21(s,3H),3.24(s,3H),3.56(s,3H),3.78(s,3H),4.60and4.71(bothm,total2H),5.66-5.75and5.90-5.99(bothm,total2H),6.84(s,1H),7.09(d,J=8.4Hz,1H),7.33-7.41(m,4H),7.68(m,2H) IR(KBr)1519,1482,1390,1362,1232,1180,1150,1077,974,873,815,799,522cm^{-1}
I-35	m.p.166-168℃ ^{1}HNMR($CDCl_3$) δ 1.04and1.05(botht,bothJ=7.5Hz,total3H),2.09-2.19(m,2H),3.46(s,3H),3.74(s,3H),4.58and4.68(bothm,total2H),5.01(bs,1H),5.69-5.78and5.87-5.95(bothm,total4H),6.45(s,1H),6.90-7.06(m,5H),7.53(m,2H) IR(KBr)3531,3489,3306,1523,1492,1459,1408,1314,1287,1270,1255,1234,1224,1118,1072,1018,1005,822cm^{-1}
I-36	m.p.148-150℃ ^{1}HNMR($CDCl_3$) δ 1.62(s,3H),1.69(s,3H),1.76(s,3H),2.08-2.20(m,4H),2.71(s,3H),3.21(s,3H),3.24(s,3H),3.56(s,3H),3.78(s,3H),4.66(d,J=6.3Hz,2H),5.09(m,1H),5.50(t,J=6.3Hz,1H),6.84(s,1H),7.10(d,J=8.4Hz,1H),7.33-7.41(m,4H),7.68(m,2H) IR(KBr)1519,1480,1464,1449,1389,1366,1291,1271,1233,1200,1176,1150,1118,1079,1012,973,946,876,841,816,801,523,510cm^{-1}

Table 21

I-50	^{1}HNMR(acetone-d$_6$) δ 1.75(m,3H),3.39(s,3H),3.72(s,3H),4.72(m,2H),5.73-5.75(m,2H),6.48(s,1H),6.83(dd,J=2.0and7.8Hz,1H),6.92-6.95(m,3H),6.97(d,J=7.8Hz,1H),7.52(m,2H)
I-51	^{1}HNMR(acetone-d$_6$) δ 1.77(s,3H),1.79(s,3H),3.41(s,3H),3.72(s,3H),4.66(m,2H),5.53(m,1H),6.49(s,1H),6.85(m,2H),7.04(d,J=8.1Hz,1H),7.10(dd,J=2.1and8.1Hz,1H),7.19(d,J=2.1Hz,1H),7.25(m,2H)
I-52	^{1}HNMR(CDCl$_3$) δ 2.58(t,J=2.2Hz,1H),2.73(s,3H),3.22(s,3H),3.26(s,3H),3.56(s,3H),3.78(s,3H),4.83(d,J=2.2Hz,2H),6.85(s,1H),7.21(d,J=8.4Hz,1H),7.35-7.46(m,4H),7.64-7.74(m,2H)
I-53	^{1}HNMR(CDCl$_3$) δ 3.45(s,3H),3.76(s,3H),4.36(d,J=1.5Hz,1H),4.55(s,2H),4.76(dd,J=1.8and0.6Hz,1H),5.02(brs,1H),5.97(d,J=0.9Hz,1H),6.45(s,1H),6.90-6.96(m,2H),6.96-7.05(m,2H),7.10-7.12(m,1H),7.50-7.58(m,2H
I-54	^{1}HNMR(CDCl$_3$) δ 1.76(s,3H),1.82(s,3H),2.61(s,3H),3.53(s,3H),3.77(s,3H),4.61(d,J=6.9Hz,2H),5.17(brs,1H),5.45-5.50(m,1H),5.72(s,1H),6.84(s,1H),6.88-7.00(m,4H),7.02(d,J=1.8Hz,1H),7.50-7.57(m,2H)
I-55	^{1}HNMR(CDCl$_3$) δ 0.99(d,J=6.5Hz,6H),1.74(q,J=6.5Hz,2H),1.85(m,1H),3.46(s,3H),3.75(s,3H),4.12(t,J=6.5Hz,2H),4.97(s,1H),5.65(s,1H),5.90(s,1H),6.45(s,1H),6.92(m,2H),6.95(m,2H),7.06(m,1H),7.54(m,2H)
I-56	^{1}HNMR(CDCl$_3$) δ 1.34(s,3H),1.35(s,3H),3.15(dd,J=3.6and6.6Hz,1H),3.39(s,3H),3.72(s,3H),4.10(dd,J=6.6and11.1Hz,1H),4.34(dd,J=3.6and11.1Hz,1H),6.49(s,1H),6.83(dd,J=1.8and8.1Hz,1H),6.93(d,J=8.7Hz,2H),6.94(d,J=1.8Hz,1H),7.00(d,J=8.1Hz,1H),7.52(d,J=8.7Hz,2H)
I-57	^{1}HNMR(CDCl$_3$) δ 2.68(s,3H),3.13(s,3H),3.53(s,3H),3.78(s,3H),5.19(s,2H),6.83(s,1H),7.10-7.19(m,3H),7.31-7.50(m,7H),7.57-7.64(m,2H) IR(KBr)1607,1520,1481,1373,1231,1176,1119,1078cm^{-1}
I-58	^{1}HNMR(CDCl$_3$) δ 1.76(s,3H),1.82(s,3H),2.72(s,3H),3.23(s,3H),3.53(s,3H),3.78(s,3H),3.78(s,3H),4.64(d,J=6.6Hz,2H),6.84(t,J=6.6Hz,1H),5.83(s,1H),7.06-7.20(m,3H),7.31-7.40(m,2H),7.56-7.65(m,2H) IR(KBr)1603,1521,1483,1376,1366,1176,1085cm^{-1}

Table 22

I-59	^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.82(s,3H),3.45(s,3H),3.75(s,3H),4.62(d,J=6.9Hz,2H),5.52(t,J=6.9Hz,1H),5.71(brs,1H),5.89(s,1H),6.44(s,1H),6.90-719(m,5H),7.56-7.67(m,2H) IR(KBr)3545,3385,1605,1586,1561,1520,1384,1311,1284,1225,1121,1096cm^{-1}
I-60	^{1}HNMR($CDCl_3$) δ 3.49(s,3H),3.74(s,3H),5.15(s,2H),5.68(s,1H),5.91(s,1H),6.02(s,2H),6.43(s,1H),6.88-7.19(m,6H),7.31-7.48(m,5H) IR($CHCl_3$)3535,1615,1588,1519,1500,1482,1410,1290,1241,1204,1092,1041cm^{-1}
I-61	^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.81(s,3H),2.73(s,3H),3.23(s,3H),3.57(s,3H),3.77(s,3H),4.64(d,J=6.6Hz,1H),5.50(t,J=6.6Hz,1H),6.03(s,2H),6.83(s,1H),6.91(d,J=8.1Hz,1H),7.08(d,J=8.1Hz,1H),7.09(d,J=8.1Hz,1H),7.14(s,1H),7.34(d,J=8.1Hz,1H),7.39(s,1H) IR($CHCl_3$)1607,1518,1477,1453,1369,1240,1178,1081cm^{-1}
I-62	^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.82(s,3H),3.49(s,3H),3.74(s,3H),4.61(d,J=6.9Hz,2H),5.53(t,J=6.9Hz,1H),5.68(s,1H),6.02(s,2H),6.43(s,1H),6.88-6.96(m,3H),7.03-7.18(m,3H) IR(KBr)3494,1610,1583,1561,1519,1480,1460,1409,1286,1243,1191,1127,1089,1036cm^{-1}
I-63	m.p.201-202℃ ^{1}HNMR($CDCl_3$) δ 3.78(s,6H),5.16(s,4H),5.69(s,2H),6.93(s,2H),6.99(d,J=8.4Hz,2H),7.08(dd,J=2.1and8.4Hz,2H),7.22(d,J=2.1Hz,2H),7.37-7.47(m,10H), IR(KBr)3600-3100(br),1584,1523,1454,1272,1245,1210,1130cm^{-1}
I-64	m.p.173-175℃ ^{1}HNMR($CDCl_3$) δ 3.12(s,6H),3.80(s,6H),5.18(s,4H),6.92(s,2H),7.12(d,J=8.7Hz,2H),7.36-7.50(m,12H),7.60(d,J=2.1Hz,2H) IR(KBr)1523,1492,1356,1290,1263,1210,1182,1114cm^{-1}

Table 25

I-77	m.p.174-176℃ ^{1}HNMR($CDCl_3$) δ 1.72(s,3H),1.76(s,3H),4.55(d,J=6.0Hz,2H),5.45-5.49(m,1H),6.82-7.43(m,10H),8.84(s,1H),9.45(s,1H),9.53(s,1H) IR(KBr)3600-3100(br),1610,1594,1532,1496,1444,1409,1305,1245,1209cm^{-1}
I-78	m.p.134-135℃ ^{1}HNMR($CDCl_3$) δ 3.78(s,3H),3.79(s,3H),5.17(s,2H),5.70(s,1H),6.91(s,1H),6.95(s,1H),6.99(d,J=8.4Hz,1H),7.07-7.14(m,3H),7.22(d,J=2.1Hz,1H),7.36-7.47(m,5H),7.52-7.57(m,2H) IR(KBr)3600-3100(br),1524,1494,1462,1381,1273,1248,1213cm^{-1}
I-79	^{1}HNMR($CDCl_3$) δ 3.12(s,3H),3.79(s,3H),3.80(s,3H),5.18(s,2H),6.92(s,1H),6.94(s,1H),7.09-7.15(m,3H),7.38-7.56(m,8H),7.60(d,J=2.1Hz,1H) IR(KBr)1522,1493,1467,1387,1365,1279,1213,1112cm^{-1}
I-80	m.p.110-111℃ ^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.81(s,3H),3.22(s,3H),3.78(s,3H),3.80(s,3H),4.63(d,J=6.9Hz,2H),5.50-5.57(m,1H),6.91(s,1H),6.94(s,1H),7.04-7.14(m,3H),7.47-7.58(m,4H) IR(KBr)1552,1493,1364,1212,1110,970cm^{-1}
I-81	^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.82(s,3H),3.78(s,3H),3.79(s,3H),4.62(d,J=6.9Hz,2H),5.50-5.55(m,1H),5.72(s,1H),6.91-6.95(m,3H),7.06-7.14(m,3H),7.20(d,J=1.8Hz,1H),7.52-7.57(m,2H) IR(KBr)3536,1520,1493,1386,1271,1241,1210cm^{-1}
I-82	^{1}HNMR($CDCl_3$) δ 1.29(t,J=7.2Hz,3H),1.76(s,3H),1.79(s,3H),3.78(s,6H),3.78(q,2H),4.64(d,J=6.3Hz,2H),4.72(s,2H),5.53-5.78(m,1H),6.61(s,1H),6.94(s,1H),6.98(d,J=8.7Hz,1H),7.09-7.20(m,4H),7.52-7.57(m,2H) IR(KBr)1758,1524,1496,1461,1387,1263,1209,1147cm^{-1}

Table 26

I-83	^{1}HNMR(CDCl$_3$) δ 2.76(s,3H),3.21(s,3H),3.55(s,3H),3.77(s,3H),5.26(s,2H),6.85(s,1H),7.17(d,J=8.7Hz,1H),7.31-7.50(m,8H),7.60-7.71(m,3H),7.92(s,1H) IR(KBr)1684,1606,1512,1478,1177,1150,1080,1016cm^{-1}
I-84	^{1}HNMR(CDCl$_3$) δ 1.26(t,J=7.2Hz,3H),3.08(s,3H),3.22(s,3H),3.31(s,3H),3.74(s,3H),4.16(q,J=7.2Hz,2H),5.17(s,2H),6.44(d,J=16.5Hz,1H),6.89(s,1H),7.13(s,2H),7.27(d,J=8.4Hz,1H),7.35-7.50(m,8H),7.69(d,J=8.4Hz,2H) IR(KBr)1708,1633,1513,1465,1367,1271,1230,1176,1151,1120,1017cm^{-1}
I-85	^{1}HNMR(CDCl$_3$) δ 1.26(t,J=7.2Hz,3H),3.22(s,3H),3.31(s,3H),3.74(s,3H),4.16(q,J=7.2Hz,2H),5.15(s,2H),5.70(s,1H),6.53(d,J=16.5Hz,1H),6.69(dd,J=8.4and2.4Hz,1H),6.88(s,2H),7.00(d,J=8.4Hz,1H),7.33-7.50(m,8H),7.70(d,J=8.4Hz,2H) IR(KBr)3398,1675,1627,1581,1512,1465,1370,1284,1256,1221,1148,1074,1017cm^{-1}
I-86	^{1}HNMR(CDCl$_3$) δ 2.53(s,3H),3.21(s,3H),3.56(s,3H),3.77(s,3H),4.58(s,2H),5.24(s,2H),6.83(s,1H),6.96(d,J=8.4Hz,1H),7.28-7.57(m,9H),7.69(d,J=8.4Hz,2H) IR(KBr)1605,1512,1479,1366,1233,1175,1149,1080,1015cm^{-1}
I-87	^{1}HNMR(CDCl$_3$) δ 1.76(s,3H),1.81(s,3H),3.27(s,3H),3.78(s,3H),3.79(s,3H),4.63(d,J=6.6Hz,2H),5.40-5.50(m,1H),5.71(s,1H),6.07(s,1H),6.91-6.95(m,3H),7.05-7.20(m,3H),7.43-7.51(m,2H) IR(KBr)3600-3200(br),1617,1525,1494,1464,1361,1292,1208,1178,1101,1033cm^{-1}
I-88	^{1}HNMR(CDCl$_3$) δ 2.57(s,3H),3.20(s,3H),3.56(s,3H),3.79(s,3H),5.18(s,2H),6.84(s,1H),7.06-7.15(m,1H),7.20-7.40(m,9H),7.47-7.57(m,2H),7.60-7.75(m,3H),8.20-8.25(m,2H)
I-89	^{1}HNMR(CDCl$_3$) δ 3.44(s,3H),3.75(s,3H),5.01(s,1H),5.18(s,2H),6.01(s,1H),6.45(s,1H),6.88-6.97(m,2H),7.07(dd,J=8.4and8.4Hz,1H),7.15-7.21(m,1H),7.27(dd,J=12.3and2.1Hz,1H),7.29-7.43(m,3H),7.45-7.56(m,4H)

Table 27

I-90	^{1}HNMR(CDCl$_3$) δ 1.68(s,3H),1.75(d,J=0.9Hz,3H),2.55(dt,J=6.9and6.9Hz,2H),2.70(s,3H),3.21(s,3H),3.55(s,3H),3.77(s,3H),4.04(t,J=6.9Hz,2H),5.17-5.28(m,1H),6.84(s,1H),7.04(dd,J=8.4and8.4Hz,1H),7.11-7.22(m,2H),7.34-7.42(m,2H),7.65-7.75(m,2H) IR(KBr)1522,1483,1361,1352,1176,1156,1079,963,873,801cm^{-1}
I-91	^{1}HNMR(CDCl$_3$) δ 2.96(s,3H),3.52(s,3H),3.58(s,6H),3.73(s,3H),4.89(s,2H),5.19(s,2H),5.23(s,2H),5.25(s,2H),6.68(s,1H),6.98(d,J=8.4Hz,1H),7.04(dd,J=8.4and2.1Hz,1H),7.11(m,2H),7.25(d,J=2.1Hz,1H),7.30-7.40(m,5H),7.51(m,2H) IR(KBr)2952,2935,2896,1609,1521,1477,1463,1438,1383,1269,1249,1228,1183,1153,1130,1116,1078,1066,1020,1008,984,944,922,903,832,801,730cm^{-1}
I-92	mp122-124℃ ^{1}HNMR(CDCl$_3$) δ 2.70(brs,3H),3.55-3.60(br,2H),3.60(s,3H),3.75(s,3H),3.81-3.83(m,2H),3.87(s,3H),5.15(s,2H),5.68(s,1H),6.69(s,1H),6.94(dd,J=2.1,8.4Hz,1H),6.97-7.03(m,3H),7.07(d,J=1.8Hz,1H),7.38-7.48(m,5H),7.51-7.56(m,2H) IR(KBr)3600-2800(br),1607,1597,1550,1518,1477,1462,1452,1392,1289,1248,1228,1175,1122,1096,1084,1015cm^{-1}
I-93	^{1}HNMR(CDCl$_3$) δ 2.59(dt,J=6.6,6.6Hz,2H),3.45(s,3H),3.74(s,3H),4.15(t,J=6.6Hz,2H),5.15(dm,J=10.2Hz,1H),5.21(dm,J=17.1Hz,1H),5.90(m,1H),6.45(s,1H),6.92(d,J=8.4Hz,2H),6.95(s,2H),7.06(brs,1H),7.53(d,J=8.4Hz,2H) IR(Nujol)3570,3525,3336,3205,1616,1596,1524,1493,1409,1315,1286,1264,1239,1225,1117,1072,821,783cm^{-1}
I-94	^{1}HNMR(CDCl$_3$) δ 0.36(m,2H),0.66(m,2H),1.31(m,1H),3.45(s,3H),3.74(s,3H),3.91(d,J=7.2Hz,2H),6.44(s,1H),6.91(d,J=8.7Hz,2H),6.93(m,2H),7.07(d,J=1.8Hz,1H),7.53(d,J=8.7Hz,2H) IR(Nujol)3570,3491,3364,3178,1617,1598,1583,1524,1494,1408,1313,1285,1266,1240,1224,1115,1072,1011,822,786cm^{-1}
I-95	^{1}HNMR(CDCl$_3$) δ 1.86(s,3H),3.45(s,3H),3.74(s,3H),4.54(s,2H),5.04(brs,1H),5.12(brs,1H),6.45(s,1H),6.91(d,J=8.7Hz,2H),6.95(m,2H),7.08(brs,1H),7.53(d,J=8.7Hz,2H) IR(Nujol)3536,3364,3179,1614,1586,1524,1493,1407,1309,1284,1265,1238,1226,1115,1073,1011,887,821,782cm^{-1}

Table 28

I-96	^{1}HNMR($CDCl_3$) δ 2.58(t,J=2.4Hz,1H),3.45(s,3H),3.74(s,3H),4.79(d,J=2.4Hz,2H),6.45(s,1H),6.92(d,J=8.7Hz,2H),6.98(dd,J=8.4,2.1Hz,1H),7.07(d,J=8.4Hz,1H),7.09(d,J=2.1Hz,1H),7.53(d,J=8.7Hz,2H) IR(Nujol)3410,3282,1612,1589,1523,1489,1404,1226,1114,1071,1015,826cm^{-1}
I-97	^{1}HNMR($CDCl_3$) δ 2.71(s,3H),3.21(s,3H),3.38(s,3H),3.56(s,3H),3.78(s,3H),5.47(s,2H),6.84(s,1H),7.00(d,J=8.6Hz,1H),7.34(dd,J=8.6,2.0Hz,1H),7.38(d,J=8.8Hz,2H),7.46(d,J=2.0Hz,1H),7.55(m,2H),7.67(m,1H),7.68(d,J=8.8Hz,2H),7.99(m,2H)
I-98	m.p.200-203℃ ^{1}HNMR($CDCl_3$) δ 2.38(s,3H),2.67(s,3H),3.12(s,3H),3.21(s,3H),3.56(s,3H),3.77(s,3H),5.14(s,2H),6.84(s,1H),7.15(d,J=8.7Hz,1H),7.21(d,J=8.1Hz,2H),7.34(d,J=8.1Hz,2H),7.34(dd,J=8.7,2.4Hz,1H),7.38(d,J=8.7Hz,2H),7.40(d,J=2.4Hz,1H),7.68(d,J=8.7Hz,2H) IR(Nujol)1608,1520,1480,1359,1173,1156,1078,1016,976,948,872,818,791cm^{-1}
I-99	^{1}HNMR($CDCl_3$) δ 2.72(s,3H),3.13(s,3H),3.21(s,3H),3.55(s,3H),3.78(s,3H),5.15(s,2H),6.84(s,1H),7.09(d,J=8.7Hz,1H),7.12(dd,J=8.7,7.2Hz,1H),7.35(dd,J=8.7,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.40(d,J=2.1Hz,1H),7.45(dd,J=8.7,5.1Hz,1H),7.68(d,J=8.7Hz,2H)
I-100	^{1}HNMR($CDCl_3$) δ 2.76(s,3H),3.19(s,3H),3.21(s,3H),3.55(s,3H),3.78(s,3H),5.25(s,2H),6.85(s,1H),7.13(d,J=8.4Hz,1H),7.32(dd,J=8.4,1.8Hz,1H),7.36(dd,J=8.4,1.8Hz,1H),7.38(d,J=8.7Hz,2H),7.42(d,J=1.8Hz,1H),7.45(d,J=1.8Hz,1H),7.59(d,J=8.4Hz,1H),7.68(d,J=8.7Hz,2H)
I-101	m.p.103-105℃ ^{1}HNMR($CDCl_3$) δ 2.18(dd,J=1.5,1.2Hz,3H),3.45(s,3H),3.74(s,3H),4.79(dd,J=5.7,1.2Hz,2H),5.81(dt,J=5.7,1.5Hz,2H),6.45(s,1H),6.92(d,J=8.7Hz,2H),6.95(s,1H),6.96(s,1H),7.07(s,1H),7.52(d,J=8.7Hz,2H) IR(KBr)3527,3328,2930,1614,1593,1523,1492,1463,1408,1262,1235,1225,1119,1072,1010,828,805cm^{-1}

Table 29

I-102	m.p.95-99℃ ^{1}HNMR($CDCl_3$) δ 3.45(s,3H),3.74(s,3H),4.67(s,2H),5.47(m,1H),5.55(dd,J=2.7,1.2Hz,1H),6.45(s,1H),6.92(d,J=8.7Hz,2H),7.01(m,2H),7.04(d,J=1.8Hz,1H),7.53(d,J=8.7Hz,2H)
I-103	^{1}HNMR($CDCl_3$) δ 3.45(s,3H),3.75(s,3H),4.59(d,J=4.2Hz,2H),6.45(s,1H),6.45(m,1H),6.55(d,J=12.9Hz,1H),6.92(d,J=8.7Hz,2H),6.96(brs,2H),7.08(brs,1H),7.53(d,J=8.7Hz,2H)
I-104	^{1}HNMR($CDCl_3$) δ 3.45(s,3H),3.75(s,3H),4.64(dd,J=6.0and1.2Hz,2H),6.23(dt,J=13.2and6.0Hz,1H),6.42(dt,J=13.2and1.2Hz,1H),6.45(s,1H),6.91(d,J=8.7Hz,2H),6.96(brs,2H),7.08(brs,1H),7.58(d,J=8.7Hz,2H)
I-105	^{1}HNMR($CDCl_3$) δ 3.46(s,3H),3.75(s,3H),3.98(d-like,J=7.2Hz,1H),4.64(d-like,J=3.9Hz,1H),6.04(dt,J=15.3,4.8Hz,1H),6.06(1H,dt,J=15.3,6.0Hz,1H),6.45(s,1H),6.92(d,J=8.7Hz,2H),6.95(s,1H),7.08(s,2H),7.53(d,J=8.7Hz,2H)
I-106	foam ^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.83(s,3H),2.08(s,3H),3.36(s,3H),3.71(s,3H),4.61(d,J=7.0Hz,2H,),4.94(s,1H),5.54(t,J=7.0Hz,1H),5.70(s,1H),6.70(dd,J=8.4,2.0Hz,1H),6.74(s,1H),6.84(d,J=2.0Hz,1H) IR(KBr)3410,1520,1476,1390,1243,1225,1101,1084,834,812,775cm^{-1}
I-107	m.p.112-114℃ ^{1}HNMR($CDCl_3$) δ 3.03(s,3H),3.57(s,3H),3.74(s,3H),3.87(s,3H),4.90(S,2H),5.15(s,2H),5.63(brs,1H),6.68(s,1H),6.91-7.07(m,5H),7.38-7.51(m,5H),7.53(m,2H) IR(KBr)3512,2952,2936,1607,1519,1468,1442,1382,1284,1253,1229,1215,1185,1156,1112,1079,1065,1020,983,956,914,831cm^{-1}
I-108	^{1}HNMR($CDCl_3$) δ 2.20(d,J=1.2Hz,3H),2.76(s,3H),3.22(s,3H),3.24(s,3H),3.56(s,3H),3.78(s,3H),4.65(m,2H),5.96(m,1H),7.07(d,J=8.4Hz,1H),7.34-7.41(m,4H),7.68(m,2H)

Table 30

I-109	m.p.153-154℃ ^{1}HNMR($CDCl_3$) δ 2.20(d,J=1.5Hz,3H),2.75(s,3H),3.21(s,3H),3.23(s,3H),3.56(s,3H),3.78(s,3H),4.81(m,2H),5.80(m,1H),6.84(s,1H),7.10(d,J=8.1Hz,1H),7.34-7.41(m,4H),7.68(m,2H) IR(KBr)1519,1481,1390,1364,1234,1177,1150,1119,1077,1011,969,945,876,816,799,521cm^{-1}
I-110	^{1}HNMR($CDCl_3$) δ 2.68(s,3H),3.11(s,3H),3.21(s,3H),3.56(s,3H),3.78(s,3H),3.83(s,3H),5.11(s,2H),6.84(s,1H),6.93(d,J=8.7Hz,2H),7.16(d,J=8.7Hz,1H),7.35(dd,J=8.7,2.1Hz,1H),7.36-7.40(m,5H),7.68(d,J=8.7Hz,2H)
I-111	^{1}HNMR($CDCl_3$) δ 2.78(s,3H),3.22(s,6H),3.55(s,3H),3.78(s,3H),5.23(s,2H),6.85(s,1H),7.08(d,J=8.7Hz,1H),7.34(dd,J=8.7,2.1Hz,1H),7.39(d,J=8.7Hz,2H),7.42(d,J=2.1Hz,1H),7.44(brs,2H),7.68(d,J=8.7Hz,2H),8.70(brs,2H)
I-112	^{1}HNMR($CDCl_3$) δ 2.70(s,3H),3.21(s,3H),3.24(s,3H),3.55(s,3H),3.78(s,3H),5.33(s,2H),6.84(s,1H),7.15(d,J=8.4Hz,1H),7.27(dd,J=7.5,4.2Hz,1H),7.33(dd,J=8.4,2.4Hz,1H),7.38(d,J=8.7Hz,2H),7.42(d,J=2.4Hz,1H),7.62(brd,J=7.5Hz,1H),7.68(d,J=8.7Hz,2H),7.76(ddd,J=7.5,7.5,1.8Hz,1H),8.61(d,J=4.2Hz,1H)
I-113	^{1}HNMR($CDCl_3$) δ 2.76(s,3H),3.15(s,3H),3.21(s,3H),3.55(s,3H),3.78(s,3H),5.22(s,2H),6.85(s,1H),7.17(d,J=8.4Hz,1H),7.38(dd,J=8.4,2.1Hz,1H),7.38(m,1H),7.39(d,J=8.7Hz,2H),7.42(d,J=2.1Hz,1H),7.68(d,J=8.7Hz,2H),7.88(d,J=7.8Hz,1H),7.64(brs,1H),8.73(brs,1H)
I-114	^{1}HNMR($CDCl_3$) δ 3.45(s,3H),3.74(s,3H),5.10(s,2H),6.45(s,1H),6.91(d,J=8.7Hz,2H),6.95(dd,J=8.4,2.1Hz,1H),7.03(d,J=8.4Hz,1H),7.08(d,J=2.1Hz,1H),7.23(brd,J=7.8Hz,2H),7.34(brd,J=7.8Hz,2H),7.53(d,J=8.7Hz,2H) IR(Nujol)3464,3344,1611,1581,1523,1490,1266,1113,1073,1011,1000,821,782cm^{-1}
I-115	^{1}HNMR($CDCl_3$) δ 3.45(s,3H),3.75(s,3H),5.11(s,2H),6.45(s,1H),6.92(d,J=8.7Hz,2H),6.96(dd,J=8.4,2.1Hz,1H),7.01(d,J=8.4Hz,1H),7.09(d,J=2.1Hz,1H),7.11(dd,J=8.7,8.7Hz,2H),7.42(dd,J=8.7,5.4Hz,2H),7.54(d,J=8.7Hz,2H) IR(Nujol)3560,3400,1612,1589,1522,1492,1260.1225,1116,1068,1006,992,841,826,803,786cm^{-1}

Table 31

I-116	^{1}HNMR(CDCl$_3$) δ 3.45(s,3H),3.75(s,3H),5.23(s,2H),6.45(s,1H),6.92(d,J=8.7Hz,2H),6.97(brs,2H),7.11(brs,1H),7.31(dd,J=8.4,2.1Hz,1H),7.46(d,J=8.4Hz,1H),7.47(d,J=2.1Hz,1H),7.54(d,J=8.7Hz,2H) IR(Nujol)3460,3359,1610,1594,1522,1490,1264,1164,1110,1072,1008,877,824,781cm^{-1}
I-117	^{1}HNMR(CDCl$_3$) δ 3.45(s,3H),3.75(s,3H),3.84(s,3H),5.07(s,2H),6.45(s,1H),6.92(d,J=8.7Hz,2H),6.95(d,J=9.0Hz,2H),6.96(dd,J=8.4,1.8Hz,1H),7.04(d,J=8.4Hz,1H),7.08(d,J=1.8Hz,1H),7.37(d,J=8.7Hz,2H),7.53(d,J=9.0Hz,2H) IR(Nujol)3400,1612,1586,1516,1488,1246,1174,1113,1070,1011,823cm^{-1}
I-118	^{1}HNMR(DMSO-d$_6$) δ 3.29(s,3H),3.64(s,3H),5.20(s,2H),6.39(s,1H),6.64(dd,J=8.4,2.1Hz,1H),6.79(d,J=2.1Hz,1H),6.84(d,J=8.7Hz,2H),6.92(d,J=8.4Hz,1H),7.43(d,J=8.7Hz,2H),7.52(d,J=6.0Hz,2H),8.59(d,J=6.0Hz,2H) IR(Nujol)3473,3441,1610,1582,1523,1493,1404,1241,1112,1074,1005,816,782cm^{-1}
I-119	^{1}HNMR(CDCl$_3$) δ 3.45(s,3H),3.74(s,3H),5.27(s,2H),6.45(s,1H),6.92(dd,J=8.4,1.8Hz,1H),6.93(d,J=8.7Hz,2H),7.11(d,J=8.4Hz,1H),7.12(d,J=1.8Hz,1H),7.31(m,1H),7.36(brd,J=7.5Hz,1H),7.53(d,J=8.7Hz,2H),7.77(ddd,J=7.5,7.5,1.8Hz,1H),8.66(d,J=5.0Hz,1H) IR(Nujol)3555,3467,3342,1608,1597,1586,1522,1466,1210,1117,1080,1016,822,761cm^{-1}
I-120	^{1}HNMR(CDCl$_3$) δ 3.45(s,3H),3.74(s,3H),5.21(s,2H),6.46(s,1H),6.91(d,J=8.7Hz,2H),6.99(brs,2H),7.11(brs,1H),7.40(dd,J=7.5,5.0Hz,1H),7.53(d,J=8.7Hz,2H),7.83(d,J=7.5Hz,1H),8.64(brd,J=5.0Hz,1H),8.74(brs,1H) IR(Nujol)3342,1609,1586,1522,1489,1253,1118,1074,1010,827,782cm^{-1}
I-121	m.p.166-168℃ ^{1}HNMR(CDCl$_3$) δ 3.45(s,3H),3.75(s,3H),4.77(d,J=6.3Hz,2H),6.22(t,J=6.3Hz,1H),6.93(d,J=8.7Hz,2H),6.93(d,J=8.7Hz,1H),6.98(dd,J=8.7,1.8Hz,1H),7.08(d,J=1.8Hz,1H),7.53(d,J=8.7Hz,2H) IR(KBr)3474,3411,2957,2930,1615,1589,1569,1523,1492,1407,1286,1263,1230,1113,1070,825cm^{-1}

Table 32

I-122	m.p.190-192℃ ^{1}HNMR(CDCl$_3$) δ 2.56(s,3H),3.22(s,3H),3.56(s,3H),3.79(s,3H),5.17(s,2H),5.73(s,1H),6.84(s,1H),6.93(dd,J=8.1and1.9Hz,1H),7.02(d,J=8.1Hz,1H),7.05(d,J=1.9Hz,1H),7.37-7.45(m,1H),7.71(d,J=8.6Hz,2H) IR(KBr)3512,1519,1484,1367,1174,1150,1078,957,870,798cm^{-1}
I-123	foam ^{1}HNMR(CDCl$_3$) δ 3.08(s,3H),3.21(s,3H),3.44(s,3H),3.78(s,3H),5.15(s,2H),6.95(s,1H),7.11(d,J=8.7Hz,1H),7.33-7.47(m,9H),7.71(d,J=8.7Hz,2H),13.3-14.5(brs,1H) IR(KBr):3422,1735,1702,1520,1471,1366,1175,1150,1118,971,954,863,807cm^{-1}
I-124	m.p.258-259℃(dec) ^{1}HNMR(DMSO-d$_6$) δ 3.32(s,3H),3.69(s,3H),5.10(2H,s),6.65(dd,J=8.4,2.1Hz,1H),6.79(d,J=2.1Hz,1H),6.86(d,J=8.4Hz,2H),6.90(s,1H),6.94(d,J=8.4Hz,1H),7.30-7.54(m,7H),8.98(s,1H),9.63(s,1H) IR(KBr):3437,3157,1702,1610,1590,1521,1474,1464,1379,1260,1245,1224,1061,1014,952,834,793,748,698cm^{-1}
I-125	^{1}HNMR(CDCl$_3$) δ 1.75(s,3H),1.81(s,3H),3.21(s,3H),3.41(s,3H),3.68(s,3H),3.77(s,3H),4.61(d,J=6.8Hz,2H),5.50(t,J=6.8Hz,1H),6.93(s,1H),7.02(d,J=8.5Hz,1H),7.27(d,J=8.5,2.3Hz,1H),7.33(dd,J=2.3Hz,1H),7.38(d,J=8.6Hz,2H),7.71(d,J=8.6Hz,2H)
I-126	^{1}HNMR(CDCl$_3$) δ 1.75(s,3H),1.81(s,3H),3.41(s,3H),3.65(s,3H),3.76(s,3H),4.59(d,J=6.6Hz,2H),5.06(s,1H),5.51(t,J=6.6Hz,1H),5.67(s,1H),6.83(dd,J=8.4,2.1Hz,1H),6.87(s,1H),6.90-6.93(m,3H),6.98(d,J=2.1Hz,1H),7.54(d,J=9.0Hz,2H)
I-127	m.p.116-117℃ ^{1}HNMR(DMSO-d$_6$) δ 1.72(s,3H),1.76(s,3H),3.32(s,3H),3.70(s,3H),4.53(d,J=7.1Hz,2H),5.48(t,J=7.1Hz,1H),6.65(dd,J=8.4,2.1Hz,1H),6.73(d,J=2.1Hz,1H),6.86(d,J=8.6Hz,2H),6.88(d,J=8.4Hz,1H),6.93(s,1H),7.47(d,J=8.6Hz,2H),8.84(s,1H),9.62(s,1H),11.9-13.4(brs,1H) IR(KBr):3446,1703,1611,1593,1520,1471,1380,1260,1225,1081,997,952,838cm^{-1}

Table 33

I-128	oil ^{1}HNMR($CDCl_3$) δ 1.65(s,3H),1.78(s,3H),2.96(s,3H),3.22(s,3H),3.25(s,3H)3.55(s,3H),3.79(s,3H),4.77(d,J=7.8Hz,2H),5.53(t,J=7.8Hz,1H),6.87(s,1H),7.39&7.67(ABq,J=8.7Hz,4H),7.70(d,J=2.1Hz,1H),7.86(d,J=2.1Hz,1H),10.36(s,1H) IR($CHCl_3$)1691,1473,1374,1230,1226,1209,1178,1152,1086,969,874,805cm^{-1}
I-129	oil ^{1}HNMR($CDCl_3$) δ 1.73(d,J=0.9Hz,3H),1.80(s,3H),2.89(s,3H),3.20(s,3H),3.22(s,3H),3.54(s,3H),3.79(s,3H),4.66(d,J=7.8Hz,2H),4.77(s,2H),5.55(m,1H),6.85(s,1H),7.39&7.68(ABq,J=9.0Hz,4H),7.39(d,J=2.1Hz,1H),7.44(d,J=2.1Hz,1H) IR($CHCl_3$)1475,1372,1230,1178,1151,1085,969,874cm^{-1}
I-130	m.p.189-190℃ ^{1}HNMR($CDCl_3$) δ 1.36(s,9H),2.81(s,3H),3.22(s,3H),3.30(s,3H),3.56(s,3H),3.79(s,3H),6.86(s,1H),7.36-7.42(m,3H),7.54(d,J=1.8Hz,1H),7.67-7.72(m,3H) IR(KBr)1472,1363,1331,1179,1153,1082,961,950,877,846,817,791,526cm^{-1}
I-131	m.p.147-148℃ ^{1}HNMR($CDCl_3$) δ 2.96(s,3H),3.18(s,3H),3.22(s,3H),3.55(s,3H),3.79(s,3H),5.28(s,2H),6.86(s,1H),7.38-7.44(m,7H),7.67(m,2H),7.75(d,J=2.1Hz,1H),7.83(d,J=2.1Hz,1H) IR(KBr)1687,1512,1472,1365,1352,1234,1201,1180,1151,1082,971,947,870,846,810,794,703,523cm^{-1}
I-132	m.p.122-124℃ ^{1}HNMR($CDCl_3$) δ 1.68(s,3H),1.74(s,3H),2.80(s,3H),3.22(s,3H),3.28(s,3H),3.56(s,3H),3.62(d,J=7.8Hz,2H),3.78(s,3H),5.31(m,1H),6.85(s,1H),7.34(dd,J=8.1Hz,J=1.8Hz,1H),7.39&7.68(ABq,J=8.7Hz,4H),7.43(d,J=8.1Hz,1H),7.46(d,J=1.8Hz,1H) IR(KBr)1474,1362,1180,1151,1076,1014,968,944,870,816,799,521cm^{-1}
I-133	^{1}HNMR($CDCl_3$) δ 1.73(d,J=0.9Hz,3H),1.82(s,3H),3.44(s,3H),3.75(s,3H),4.54(d,J=6.9Hz,2H),4.78(s,2H),5.30(s,1H),5.61(m,1H),5.67(s,1H),6.01(s,1H),6.45(s,1H),6.92&7.52(ABq,J=8.7Hz,4H),7.02(d,J=2.1Hz,1H),7.05(d,J=2.1Hz,1H) IR(KBr)3428,1612,1522,1483,1458,1403,1362,1334,1304,1266,1226,1174,1116,1083,1024,970,938cm^{-1}

Table 34

I-134	m.p.167-168℃ ^{1}HNMR($CDCl_3$) δ 1.39(d,J=1.2Hz,3H),1.70(s,3H),3.36(d,J=8.1Hz,2H),3.45(s,3H),3.74(s,3H),4.98(s,1H),5.29(m,1H),5.96(s,1H),6.45(s,1H),6.78(s,1H),6.93&7.54(ABq,J=8.7Hz,4H),6.96(dd,J=7.8Hz,J=1.8Hz,1H),7.09(d,J=1.8Hz,1H),7.49(d,J=7.8Hz,1H) IR(KBr)3413,3365,2931,1611,1552,1520,1502,1475,1455,1441,1402,1360,1323,1262,1227,1206,1182,1170,1162,1114,1100,1081,1052,1014,941,835,816,587,542cm^{-1}
I-135	m.p.183-184℃ ^{1}HNMR($CDCl_3$) δ 3.46(s,3H),3.74(s,3H),3.83(s,3H),4.78(m,2H),5.99(m,1H),6.44(m,1H),6.45(s,1H),6.92(d,J=8.7Hz,2H),6.94(dd,J=8.1,1.8Hz,1H),7.00(d,J=8.1Hz,1H),7.10(d,J=1.8Hz,1H),7.53(d,J=8.7Hz,2H) IR(KBr)3383,2929,1699,1523,1491,1405,1262,1236,1206,1173,1116,1071,1011,822cm^{-1}
I-136	^{1}HNMR(CD_3OD) δ 1.26(s,3H),1.29(s,3H),3.38(s,3H),3.68(s,3H),3.80(dd,J=8.4,2.7Hz,1H),3.96(dd,J=9.6,8.4Hz,1H),4.34(dd,J=9.6,2.7Hz,1H),6.44(s,1H),6.80(dd,J=8.1,1.8Hz,1H),6.85(d,J=8.7Hz,2H),6.86(d,J=1.8Hz,1H),7.96(d,J=8.1Hz,1H),7.46(d,J=8.7Hz,2H) IR(Nujol)3367,1612,1588,1523,1489,1254,1226,1115,1072,1013,940,814cm^{-1}
I-137	^{1}HNMR(CD_3OD) δ 3.38(s,3H),3.68(s,3H),4.02(dd,J=11.0,3.6Hz,1H),4.12(dd,J=11.0,1.8Hz,1H),5.48(dd,J=3.6,1.8Hz,1H),6.43(s,1H),6.83-6.87(m,3H),6.85(d,J=8.7Hz,2H),7.46(d,J=8.7Hz,2H) IR(Nujol)3410,1612,1588,1522,1487,1269,1231,1114,1071,1011,947,824cm^{-1}
I-138	^{1}HNMR(CD_3OD) δ 3.38(s,3H),3.68(s,3H),4.70(d,J=5.4Hz,2H),6.43(s,1H),6.80(dd,J=8.1,2.1Hz,1H),6.85(d,J=8.4Hz,2H),6.88(d,J=2.1Hz,1H),6.98(d,J=8.1Hz,1H),7.46(d,J=8.4Hz,2H),7.62(t,J=5.4Hz,1H) IR(Nujol)3368,1612,1589,1523,1489,1253,1226,1114,1072,1011,940,825cm^{-1}
I-139	^{1}HNMR($CDCl_3$) δ 3.45(s,3H),3.74(s,3H),3.92(s,3H),4.75(d,J=5.1Hz,2H),6.45(s,1H),6.91(d,J=8.7Hz,2H),6.92(d,J=6.0Hz,1H),7.00(dd,J=6.0,1.8Hz,1H),7.09(d,J=1.8Hz,1H),7.52(d,J=8.7Hz,2H),7.58(t,J=5.1Hz,1H) IR(Nujol)3399,1612,1589,1523,1489,1252,1226,1115,1072,1043,1014,941,825cm^{-1}

Table 35

I-140	^{1}HNMR(CD_3OD) δ 3.38(s,3H),3.68(s,3H),4.51(s,2H),4.71(d,J=5.4Hz,2H),6.43(s,1H),6.80(dd,J=8.4,2.1Hz,1H),6.85(d,J=8.4Hz,2H),6.87(d,J=2.1Hz,1H),6.98(d,J=8.4Hz,1H),7.46(d,J=8.4Hz,2H),7.75(t,J=5.4Hz,1H) IR(Nujol)3384,1611,1588,1523,1489,1252,1227,1115,1072,1014,824,758cm^{-1}
I-141	^{1}HNMR($CDCl_3$) δ 3.45(s,3H),3.74(s,3H),4.76(d,J=5.1Hz,2H),5.15(s,2H),6.45(s,1H),6.86(d,J=8.4Hz,1H),6.92(d,J=8.7Hz,2H),6.94(dd,J=8.4,2.1Hz,1H),7.08(d,J=2.1Hz,1H),7.31-7.40(m,5H),7.53(d,J=8.7Hz,2H),7.65(t,J=5.1Hz,1H) IR(Nujol)3399,1611,1588,1523,1489,1251,1225,1115,1072,1013,940,825cm^{-1}
I-142	^{1}HNMR($CDCl_3$-CD_3OD 1:1) δ 3.26(s,3H),2.64(m,4H),3.13(m,4H),3.44(s,3H),3.73(s,3H),4.78(d,J=4.5Hz,2H),6.45(s,1H),6.90(d,J=8.7Hz,2H),6.90(dd,J=8.4,2.1Hz,1H),6.99(d,J=2.1Hz,1H),7.00(d,J=8.4Hz,1H),7.12(t,J=4.5Hz,1H),7.49(d,J=8.7Hz,2H) IR(Nujol)3492,3297,1607,1561,1523,1486,1247,1224,1113,1011,957,828,799cm^{-1}
I-143	^{1}HNMR($CDCl_3$) δ 3.09(m,4H),3.45(s,3H),3.74(s,3H),3.86(m,4H),4.82(d,J=4.2Hz,2H),6.44(s,1H),6.92(d,J=8.7Hz,2H),6.98(dd,J=8.4,1.8Hz,1H),7.00(t,J=4.2Hz,1H),7.04(d,J=8.4Hz,1H),7.07(d,J=1.8Hz,1H),7.53(d,J=8.7Hz,2H) IR(Nujol)3366,1611,1586,1523,1488,1268,1227,1114,1070,1011,823cm^{-1}
I-144	^{1}HNMR($CDCl_3$) δ 1.29(t,J=6.9Hz,3H),2.65(dd,J=15.9,6.6Hz,1H),2.81(dd,J=15.9,6.6Hz,1H),3.44(s,3H),3.75(s,3H),4.03(dd,J=11.4,6.9Hz,1H),4.20(q,J=6.9Hz,2H),4.35(dd,J=11.4,2.4Hz,1H),4.66(ddt,J=6.9,6.6,2.4Hz,1H),6.44(s,1H),6.92(d,J=8.7Hz,2H),6.96-7.01(m,3H),7.53(d,J=8.7Hz,2H)
I-145	oil ^{1}HNMR($CDCl_3$) δ 1.68(s,3H),1.74(d,J=0.9Hz,3H),2.55(m,2H),3.44(s,3H),3.75(s,3H),4.04(t,J=7.2Hz,2H),4.97(brs,1H),5.23(m,1H),6.00(s,1H),6.45(s,1H),6.92&7.53(ABq,J=8.7Hz,4H),7.02(m,1H),7.17-7.22(m,2H) IR(KBr)1613,1525,1490,1475,1463,1454,1402,1304,1269,1231,1112,1072,1019,827cm^{-1}

Table 36

I-146	m.p.256-257℃ ^{1}HNMR(DMSO-d_6) δ 3.35(s,3H),3.44(s,3H),3.74(s,3H),5.22(s,2H),7.06(s,1H),7.28-7.56(m,11H),7.69(s,1H),7.76(d,J=8.6Hz,2H) IR(KBr):3479,3360,1672,1517,1465,1361,1339,1295,1261,1228,1172,1144,1118,1013,957,870,852,804,751cm^{-1}
I-147	m.p..163-164℃ ^{1}HNMR(CDCl$_3$) δ 1.74(s,3H),1.81(s,3H),3.43(s,3H),3.74(s,3H),4.58(d,J=6.8Hz,2H),5.50(t,J=6.8Hz,1H),5.80(s,1H),6.37(s,1H),6.86-6.95(m,5H),6.90(d,J=8.6Hz,2H),6.99(s,1H),7.49(d,J=8.6Hz,2H) IR(KBr):3533,3412,3350,1655,1609,1588,1519,1469,1373,1274,1245,1227,1131,1082,1060,999,954,838cm^{-1}
I-148	^{1}HNMR(CDCl$_3$) δ 2.88(s,3H),3.22(s,3H),3.54(s,3H),3.77(s,3H),5.35(m,2H),6.85(s,1H),7.24(d,J=9.0Hz,1H),7.39(d,J=8.7Hz,2H),7.42-7.46(m,5H),7.65(d.d,J=9.0&2.1Hz,1H),7.68(d,J=8.7Hz,2H),8.26(d,J=2.1Hz,1H)
I-149	^{1}HNMR(CDCl$_3$) δ 1.80(s,3H),1.85(s,3H),3.43(s,3H),3.74(s,3H),4.80(d,J=6.9Hz,2H),5.76(t,J=6.9Hz,1H),6.46(s,1H),6.92(d,J=8.4Hz,2H),7.14(d,J=8.7Hz,1H),7.49(d,J=8.4Hz,2H)7.70(d.d,J=8.7&2.1Hz,1H),8.28(d,J=2.1Hz,1H) IR(KBr)3472,1707,1671,1610,1520,1482,1460,1426,1269,1226,1119,1076,1012cm^{-1}
I-150	^{1}HNMR(CDCl$_3$) δ 1.76(s,3H),1.81(s,3H),2.63(s,3H),3.21(s,3H),3.55(s,3H),3.77(s,3H),4.62(d,J=6.3Hz,2H),4.73(s,2H),5.50(t,J=6.3Hz,1H),6.84(s,1H),6.99(d,J=9.0Hz,1H),7.51-7.42(m,9H),7.70(d,J=9.0Hz,2H) IR(KBr)3432,1607,1512,1479,1364,1234,1176,1151,1079,1016cm^{-1}
I-151	^{1}HNMR(CDCl$_3$) δ 1.58(s,3H),1.81(s,3H),3.45(s,3H),3.73(s,3H),4.61(d,J=6.6Hz,2H),4.72(s,2H),5.52(t,J=6.6Hz,1H),6.45(s,1H),6.91(d,J=8.7Hz,2H),6.98(d,J=8.4Hz,1H),7.36(d.d,J=8.4&2.1Hz,1H),7.38(d,J=2.1Hz,1H),7.50(d,J=8.4Hz,2H) IR(KBr)3580,3411,1611,1521,1485,1464,1397,1233,1113,1077,1024,1001cm^{-1}
I-152	^{1}HNMR(CDCl$_3$) δ 3.50(s,3H),3.77(s,3H),5.15(s,2H),5.72(s,1H),6.03(s,2H),6.71(d.d,J=8.4&2.1Hz,1H),6.91(d,J=8.4Hz,1H),6.97(s,1H),6.98(d,J=8.4Hz,1H),7.07(s,1H),7.09(d.d,J=8.4&2.1Hz,1H),7.16(d,J=2.1Hz,1H),7.34-7.50(m,5H),989(s,1H) IR(KBr)3446,1697,1587,1511,1470,1383,1285,1240,1127,1036cm^{-1}

Table 37

I-153	^{1}HNMR(CDCl$_3$) δ 3.78(s,3H),3.79(s,3H),4.87(s,1H),5.16(s,2H),5.70(s,1H),6.88-6.91(m,2H),6.97(s,1H),7.00(s,1H),6.99(d,J=8.4Hz,1H),7.08(dd,J=2.1,8.4Hz,1H),7.23(d,J=2.1Hz,1H),7.34-7.49(m,7H)
I-154	^{1}HNMR(CDCl$_3$) δ 1.69(s,3H),1.74(s,3H),2.51-2.58(m,2H),3.19(s,3H),3.21(s,3H),3.79(s,3H),3.80(s,3H),4.07(t,J=6.9Hz,2H),5.18-5.27(m,1H),6.92(s,1H),6.95(s,1H),7.05(d,J=8.7Hz,1H),7.32-7.37(m,2H),7.49(dd,J=2.1,8.7Hz,1H),7.58(d,J=2.1Hz,1H),7.60-7.64(m,2H)
I-155	^{1}HNMR(CDCl$_3$) δ 1.69(s,3H),1.75(s,3H),2.53(q,J=6.9Hz,2H),3.77(s,3H),3.78(s,3H),4.07(t,J=6.9Hz,2H),4.97(s,3H),5.20-5.25(m,1H),5.71(s,1H),6.87-6.93(m,3H),7.07(dd,J=1.8,8.4Hz,1H),7.20(d,J=1.8Hz,1H),7.45-7.50(m,2H)
I-156	m.p.163-175℃ ^{1}HNMR(CDCl$_3$) δ 2.76(s,3H),3.19(s,3H),3.22(s,3H),3.54(s,3H),3.79(s,3H),5.20(s,2H),5.68(s,1H),6.84(s,1H),6.97(d,J=1.8Hz,1H),6.99(d,J=1.8Hz,1H),7.37-7.47(m,7H),7.68(m,2H) IR(KBr)3436,1480,1415,1391,1363,1233,1178,1151,1079,1024,969,953,875,801,522cm^{-1}
I-157	m.p.176-178℃ ^{1}HNMR(CDCl$_3$) δ 2.08(s,3H),2.40,(s,3H),2.72(s,3H),3.21(s,3H),3.22(s,3H),3.55(s,3H),3.79(s,3H),5.13(s,2H),6.86(s,1H),7.39and7.68(ABq,J=8.7Hz,4H),7.47(d,J=2.1Hz,1H),7.49(d,J=2.1Hz,1H) IR(KBr)1770,1747,1477,1391,1366,1235,1180,1152,1077,873,799,522cm^{-1}
I-158	m.p.175-177℃ ^{1}HNMR(CDCl$_3$) δ 2.87(s,3H),3.13(s,6H),3.22(s,3H),3.55(s,3H),3.81(s,3H),5.22(s,2H),6.86(s,1H),7.38-7.45(m,7H),7.51-7.53(m,2H),7.67(m,2H) IR(KBr)1479,1367,1180,1151,1080,1019,966,876,798,525cm^{-1}

Table 38

I-159	foam ^{1}HNMR($CDCl_3$) δ 2.44(s,3H),3.21(s,3H),3.54(s,3H),3.76(s,3H),3.79(s,3H),4.77(s,2H),5.24(s,2H),6.83(s,1H),6.90-7.00(m,3H),7.30-7.48(m,5H),7.37(d,J=8.8Hz,2H),7.69(d,J=8.8Hz,2H) IR(KBr):1758,1519,1481,1365,1236,1176,1150,1079,1013,963,872,798cm^{-1}
I-160	m.p..146-147℃ ^{1}HNMR(DMSO-d_6) δ 3.31(s,3H),3.65(s,3H),4.63(s,2H),5.15(s,2H),6.40(s,1H),6.83-6.90(m,4H),7.05(d,J=8.4Hz,1H),7.32-7.52(m,7H),8.57(s,1H),9.50(s,1H),12.0-13.9(brs,1H) IR(KBr):3422,1728,1611,1524,1489,1455,1405,1247,1142,1118,1080,1012,818,749,742,698cm^{-1}
I-161	^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.79(s,3H),2.57(s,3H),3.21(s,3H),3.56(s,3H),3.77(s,3H),3.80(s,3H),4.64(d,J=6.5Hz,2H),4.74(s,2H),5.54(t,J=6.5Hz,1H),6.83(s,1H),6.88(d,J=1.5Hz,1H),7.02-7.03(m,2H),7.38(d,J=8.7Hz,2H),7.69(d,J=8.7Hz,2H)
I-162	m.p.147-149℃ ^{1}HNMR(DMSO-d_6) δ 1.73(s,3H),1.77(s,3H),3.30(s,3H),3.65(s,3H),4.57(d,J=6.6Hz,2H),4.60(s,2H),5.86(t,J=6.6Hz,1H),6.40(s,1H),6.80(d,J=1.7Hz,1H),6.84(d,J=8.7Hz,2H),6.87(dd,J=8.7Hz,1H),6.99(d,J=8.7Hz,1H),7.43(d,J=8.7Hz,2H),8.56(s,1H),9.51(s,1H),12.8(brs,1H) IR(KBr):3483,3376,1737,1612,1523,1489,1460,1397,1271,1231,1175,1120,1072,1012,904,820cm^{-1}
I-163	m.p.144-145℃ ^{1}HNMR($CDCl_3$) δ 3.04(s,3H),3.20(s,3H),3.59(s,3H),3.75(s,3H),4.90(s,2H),5.16(s,2H),5.65(s,1H),6.67(s,1H),6.92(dd,J=2.1,8.4Hz,1H),7.00(d,J=8.4Hz,1H),7.06(d,J=2.1Hz,1H),7.26-7.47(m,7H),7.61-7.66(m,2H) IR(KBr)3600-3200(br),1517,1477,1449,1382,1361,1277,1235,1199,1150,1112,1079,1064,1010,997cm^{-1}
I-164	m.p.80-83℃ ^{1}HNMR($CDCl_3$) δ 2.99(s,3H),3.12(s,3H),3.20(s,3H),3.58(s,3H),3.75(s,3H),4.93(s,3H),5.18(s,2H),6.67(s,1H),7.12(d,J=8.7Hz,1H),7.34-7.49(m,9H),7.60-7.65(m,2H)

Table 39

I-165	m.p.148-151℃ ^{1}HNMR(CDCl$_3$) δ 3.03(s,3H),3.57(s,3H),3.74(s,3H),4.89(s,1H),4.90(s,2H),5.15(s,2H),5.64(s,1H),6.67(s,1H),6.88-6.93(m,3H),6.99(d,J=8.4Hz,1H),7.06(d,J=1.8Hz,1H),7.20-7.49(m,7H) IR(KBr)3600-3200(br),1609,1590,1519,1477,1459,1381,1253,1216,1156,1111,1077,1066,1012cm^{-1}
I-166	m.p.199℃ ^{1}HNMR(CDCl$_3$) δ 3.10(s,3H),3.21(s,3H),3.44(s,3H),3.76(s,3H),5.17(s,2H),6.03(s,1H),6.44(s,1H),7.14(d,J=8.4Hz,1H),7.36-7.49(m,8H),7.52(d,J=2.1Hz,1H),7.67-7.72(m,2H) IR(KBr)3600-3200(br),1520,1486,1362,1183,1152,1110,971cm^{-1}
I-167	m.p.113-115℃ ^{1}HNMR(CDCl$_3$) δ 0.76(t,J=7.2Hz,3H),1.46-1.55(m,2H),3.11(s,3H),3.20(s,1H),3.63(s,1H),3.71(t,J=6.6Hz,2H),5.18(s,2H),6.64(s,1H),7.11(d,J=8.7Hz,1H),7.33-7.50(m,9H),7.60-7.65(m,2H) IR(KBr)1517,1475,1365,1345,1293,1233,1177,1149,1109,1079,1017,956cm^{-1}
I-168	m.p.56-58℃ ^{1}HNMR(CDCl$_3$) δ 0.76(t,J=7.5Hz,3H),1.44-1.56(m,2H),3.61(s,3H),3.71(t,J=6.6Hz,2H),3.74(s,3H),4.86(s,1H),5.15(s,2H),5.63(s,1H),6.65(s,1H),6.88-6.93(m,3H),6.98(d,J=8.4Hz,1H),7.04(d,J=1.8Hz,1H),7.37-7.50(m,7H) IR(KBr)3600-3200(br),1611,1590,1519,1476,1404,1379,1252,1230,1110,1078,1015cm^{-1}
I-169	m.p.101-103℃ ^{1}HNMR(CDCl$_3$) δ 0.77(t,J=7.5Hz,3H),1.44-1.55(m,2H),1.76(s,3H),1.81(s,3H),3.20(s,3H),3.21(s,3H),3.63(s,3H),3.71(t,J=6.6Hz,2H),3.75(s,3H),4.63(d,J=6.6Hz,2H),5.48-5.53(m,1H),6.64(s,1H),7.04(d,J=8.4Hz,1H),7.32-7.38(m,3H),7.42(d,J=2.1Hz,1H),7.60-7.65(m,2H) IR(KBr)1514,1473,1370,1359,1290,1233,1174,1149,1107,970cm^{-1}

Table 40

I-170	m.p.64-66℃ ^{1}HNMR($CDCl_3$) δ 0.77(t,J=7.5Hz,3H),1.44-1.55(m,2H),1.76(s,3H),1.81(s,3H),3.20(s,3H),3.21(s,3H),3.63(s,3H),3.71(t,J=6.6Hz,2H),3.75(s,3H),4.63(d,J=6.6Hz,2H),5.48-5.53(m,1H),6.64(s,1H),7.04(d,J=8.4Hz,1H),7.32-7.38(m,3H),7.42(d,J=2.1Hz,1H),7.60-7.65(m,2H) IR(KBr)3600-2800(br),1612,1590,1520,1475,1462,1405,1381,1285,1244,1226,1110,1079,988cm^{-1}
I-171	m.p.148-150℃ ^{1}HNMR($CDCl_3$) δ 1.74(d,J=0.9Hz,3H),1.80(s,3H),2.88(s,3H),3.22(s,3H),3.23(s,6H),3.55(s,3H),3.80(s,3H),4.72(d,J=7.5Hz,2H),5.55(m,1H),6.85(s,1H),7.39&7.67(ABq,J=8.7Hz,4H),7.40(s,2H) IR(KBr)1514,1479,1411,1366,1179,1152,1079,1022,968,875,799,525cm^{-1}
I-172	^{1}HNMR($CDCl_3$) δ 0.94(t,J=7.2Hz,3H),1.45(tq,J=7.2,7.2Hz,2H),2.13(m,2H),3.46(s,3H),3.74(s,3H),4.68(d,J=5.4Hz,2H),5.72(m,2H),6.45(s,1H),6.92(d,J=8.7Hz,2H),6.96(brs,2H),7.07(brs,1H),7.53(d,J=8.7Hz,2H)
I-173	^{1}HNMR($CDCl_3$) δ 1.76(brd,J=6.3Hz,3H),3.46(s,3H),3.74(s,3H),4.70(d,J=5.4Hz,2H),5.77(m,2H),6.45(s,1H),6.91(d,J=8.7Hz,2H),6.96(brs,2H),7.07(brs,1H),7.53(d,J=8.7Hz,2H) IR(Nujol)3350,1613,1587,1523,1491,1287,1261,1238,1114,1071,1011,936,820,783cm^{-1}
I-174	^{1}HNMR($CDCl_3$) δ 3.45(s,3H),3.76(s,3H),4.56(s,2H),5.55(s,1H),6.45(s,1H),6.93(d,J=8.7Hz,2H),7.01(d,J=8.4Hz,1H),7.08(dd,J=8.4,2.1Hz,1H),7.27(d,J=2.1Hz,1H),7.54(d,J=8.7Hz,2H)
I-175	^{1}HNMR($CDCl_3$) δ 3.45(s,3H),3.74(s,3H),4.82(dd,J=6.6,1.5Hz,2H),5.28(d,J=10.5Hz,1H),5.35(d,J=16.5Hz,1H),5.75(dt,J=10.8,6.6Hz,1H),6.26(dd,J=10.5,10.5Hz,1H),6.45(s,1H),6.66(ddd,J=16.5,10.5,10.5Hz,1H),6.92(d,J=8.7Hz,2H),6.96(m,2H),7.07(brs,1H),7.53(d,J=8.7Hz,2H) IR(Nujol)3399,1611,1591,1523,1489,1248,1226,1113,1071,1009,825cm^{-1}

Table 41

I-176	^{1}HNMR(CDCl$_3$) δ 1.59(m,6H),2.17(m,2H),2.24,(m,2H),2.71(s,3H),3.21(s,3H),3.24(s,3H),3.56(s,3H),3.78(s,3H),4.65(d,J=7.2Hz,2H),5.43(t,J=7.2Hz,1H),6.84(s,1H),7.10(d,J=8.4Hz,1H),7.34(dd,J=8.4,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.39(d,J=2.1Hz,1H),7.68(d,J=8.7Hz,2H)
I-177	m.p.177-178℃ ^{1}HNMR(CDCl$_3$) δ 2.31(t,J=5.7Hz,2H),2.39(t,J=5.7Hz,2H),2.76(s,3H),3.21(s,3H),3.24(s,3H),3.56(s,3H),3.70(t,J=5.7Hz,2H),3.73(t,J=5.7Hz,2H),3.78(s,3H),4.67(d,J=6.6Hz,2H),5.57(t,J=6.6Hz,1H),6.84(s,1H),7.09(d,J=8.4Hz,1H),7.35(dd,J=8.4,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.39(d,J=2.1Hz,1H),7.67(d,J=8.7Hz,2H) IR(KBr)2940,1519,1481,1362,1178,1152,1079,818cm^{-1}
I-178	^{1}HNMR(CDCl$_3$) δ 1.04(t,J=7.5Hz,3H),1.05(t,J=7.5Hz,3H),2.12(q,J=7.5Hz,2H),2.16(q,J=7.5Hz,2H),2.71(s,3H),3.21(s,3H),3.24(s,3H),3.56(s,3H),3.78(s,3H),4.67(d,J=6.6Hz,2H),5.45(t,J=6.6Hz,1H),6.84(s,1H),7.11(d,J=8.4Hz,1H),7.35(dd,J=8.4,2.4Hz,1H),7.38(d,J=8.7Hz,2H),7.39(d,J=2.4Hz,1H),7.68(d,J=8.7Hz,2H)
I-179	^{1}HNMR(CDCl$_3$) δ 1.05(t,J=7.5Hz,3H),1.76(s,3H),2.10(q,J=7.5Hz,2H),2.71(s,3H),3.21(s,3H),3.24(s,3H),3.56(s,3H),3.78(s,3H),4.66(d,J=6.9Hz,2H),5.48(t,J=6.9Hz,1H),6.84(s,1H),7.10(d,J=8.4Hz,1H),7.34(dd,J=8.4,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.39(d,J=2.1Hz,1H),7.68(d,J=8.7Hz,2H)
I-180	^{1}HNMR(CDCl$_3$) δ 1.76(s,3H),1.80(s,6H),2.72(s,3H),3.21(s,3H),3.21(s,3H),3.56(s,3H),3.78(s,3H),4.61(s,2H),6.84(s,1H),7.10(d,J=8.4Hz,1H),7.34(dd,J=8.4,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.39(d,J=2.1Hz,1H),7.68(d,J=8.7Hz,2H)
I-181	m.p.157-158℃ ^{1}HNMR(CDCl$_3$) δ 1.55-1.65(m,6H),2.18(m,2H),2.23(m,2H),3.46(s,3H),3.74(s,3H),4.63d,J=7.2Hz,2H),5.47(t,J=7.2Hz,1H),6.45(s,1H),6.91(d,J=8.4Hz,2H),6.96(br.s,2H),7.06(br.s,1H),7.52(d,J=8.4Hz,2H) IR(KBr)3410,2924,2854,1609,1567,1523,1490,1462,1405,1254,1221,1198,1119,1069,824,813cm^{-1}

Table 42

I-182	m.p.219-221℃ ^{1}HNMR(DMSO-d_6) δ 2.22(t,J=5.4Hz,2H),2.32(t,J=5.4Hz,2H),3.30(s,3H),3.56(t,J=5.4Hz,2H),3.61(t,J=5.4Hz,2H),3.64(s,3H),4.59(d,J=6.6Hz,2H),5.54(t,J=6.6Hz,1H),6.39(s,1H),6.64(dd,J=8.4,2.1Hz,1H),6.73(d,J=2.1Hz,1H),6.84(d,J=8.7Hz,2H),6.89(d,J=8.4Hz,1H),7.43(d,J=8.4Hz,2H) IR(KBr)3392,2948,1609,1586,1522,1492,1271,1239,1219,1118,1076,1007,818cm^{-1}
I-183	m.p.149-150℃ ^{1}HNMR($CDCl_3$) δ 1.03(t,J=7.5Hz,3H),1.07(t,J=7.5Hz,3H),2.13(q,J=7.5Hz,2H),2.15(q,J=7.5Hz,2H),3.46(s,3H),3.75(s,3H),4.64(d,J=6.6Hz,2H),5.48(t,J=6.6Hz,1H),6.45(s,1H),6.92(d,J=8.7Hz,2H),6.97(dd,J=7.8,1.5Hz,,1H),6.97(d,J=7.8Hz,1H),7.06(d,J=1.5Hz,1H),7.52(d,J=8.7Hz,2H) IR(KBr)3398,2963,2934,1671,1610,1523,1493,1465,1407,1259,1224,1118,1071,813cm^{-1}
I-184	m.p.217-218℃ ^{1}HNMR($CDCl_3$) δ 3.86(s,3H),5.16(s,2H),5.72(s,1H),6.97-7.01(m,3H),7.12(dd,J=2.4,8.4Hz,1H),7.26(d,J=2.4Hz,1H),7.34-7.47(m,5H),7.54-7.58(m,2H),7.60(s,4H) IR(KBr)3600-3200(br),1605,1590,1493,1298,1282,1253,1206,1183,1022cm^{-1}
I-185	^{1}HNMR($CDCl_3$) δ 1.21(t,J=6.9Hz,3H),1.77(s,3H),1.82(s,3H),2.38-2.46(m,2H),2.72-2.84(m,2H),3.18(s,3H),3.21(s,3H),3.35(s,3H),3.70(s,3H),4.06(q,J=6.9Hz,2H),4.63(d,J=6.6Hz,2H),5.52(t,J=6.6Hz,1H),6.75(s,1H),7.07(d,J=8.4Hz,1H),7.13(d.d,J=8.4&2.1Hz,1H),7.21(d,J=2.1Hz,1H),7.37(d,J=9.0Hz,2H),7.69(d,J=9.0Hz,2H) IR(KBr)1727,1517,1469,1364,1291,1234,1179,1152,1118,1080,1003cm^{-1}
I-186	^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.82(s,3H),2.42-2.53(m,2H),2.72-2.86(m,2H),3.35(s,3H),3.69(s,3H),4.61(d,J=6.6Hz,2H),5.53(t,J=6.6Hz,1H),5.71(s,1H),6.68(d.d,J=8.4&2.1Hz,1H),6.76(s,1H),6.81(d,J=2.1Hz,1H),6.91(d,J=8.4Hz,2H),6.92(d,J=8.4Hz,1H),7.52(d,J=8.4Hz,2H) IR(KBr)3419,1707,1612,1518,1472,1390,1225,1078cm^{-1}

Table 43

I-187	^{1}HNMR($CDCl_3$) δ 2.55(s,3H),3.54(s,3H),3.78(s,3H),5.18(s,1H),6.85(s,1H),6.91(d.d,J=8.4&2.1Hz,1H),7.03(d,J=8.4Hz,1H),7.04(d,J=2.1Hz,1H),7.33-7.48(m,5H),7.71(d,J=8.4Hz,2H),7.72(d,J=8.4Hz,2H) IR(KBr)3442,1617,1517,1485,1485,1394,1357,1331,1171,1124,1077,1067,1016cm^{-1}
I-188	^{1}HNMR($CDCl_3$) δ 2.68(s,3H),3.13(s,3H),3.54(s,3H),3.79(s,3H),5.19(s,2H),6.86(s,1H),7.16(d,J=8.7Hz,1H),7.31-7.50(m,7H),7.72(d,J=8.7Hz,2H),7.76(d,J=8.7Hz,2H) IR(KBr)1614,1513,1482,1366,1324,1177,1120,1079,1065,1016cm^{-1}
I-189	^{1}HNMR($CDCl_3$) δ 2.68(s,3H),3.13(s,3H),3.54(s,3H),3.79(s,3H),5.19(s,2H),6.86(s,1H),7.16(d,J=8.7Hz,1H),7.31-7.50(m,7H),7.72(d,J=8.7Hz,2H),7.76(d,J=8.7Hz,2H) IR(KBr)1614,1513,1482,1366,1324,1177,1120,1079,1065,1016cm^{-1}
I-190	^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.82(s,3H),3.46(s,3H),3.76(s,3H),4.62(d,J=8.4Hz,2H),5.53(t,J=8.4Hz,1H),5.71(s,1H),5.85(s,1H),6.46(s,1H),6.94(d.d,J=8.1&1.8Hz,1H),6.98(d,J=8.1Hz,1H),7.05(d,J=1.8Hz,1H),7.71(d,J=8.1Hz,2H),7.77(d,J=8.1Hz,2H) IR(KBr)3552,3505,3466,1613,1509,1487,1397,1324,1288,1245,1163,1110,1065cm^{-1}
I-191	^{1}HNMR($CDCl_3$) δ 3.02(s,6H),3.48(s,3H),3.76(s,3H),5.15(s,2H),5.67(s,1H),5.95(s,1H),6.47(s,1H),6.81(d,J=8.7Hz,2H),6.96(d.d,J=8.4&2.1Hz,1H),7.04(d,J=8.4Hz,1H),7.10(d,J=2.1Hz,1H),7.31-7.49(m,5H),7.55(d,J=8.7Hz,2H) IR(KBr)3543,3500,1605,1526,1486,1459,1245,1198,1110,1070,999cm^{-1}
I-192	mp122-124℃ ^{1}HNMR($CDCl_3$) δ 2.70(brs,3H),3.55-3.60(br,2H),3.60(s,3H),3.75(s,3H),3.81-3.83(m,2H),3.87(s,3H),5.15(s,2H),5.68(s,1H),6.69(s,1H),6.94(dd,J=2.1,8.4Hz,1H),6.97-7.03(m,3H),7.07(d,J=1.8Hz,1H),7.38-7.48(m,5H),7.51-7.56(m,2H) IR(KBr)3600-2800(br),1607,1597,1550,1518,1477,1462,1452,1392,1289,1248,1228,1175,1122,1096,1084,1015cm^{-1}

Table 44

I-193	m.p.160-163℃ ^{1}HNMR(CDCl$_3$) δ 3.60(s,3H),3.60-3.64(br,2H),3.76(s,3H),3.77-3.80(m,2H),5.15(s,2H),5.69(s,1H),5.88(s,1H),6.69(s,1H),6.90-6.94(m,3H),7.02(d,J=8.4Hz,1H),7.08(d,J=2.1Hz,1H),7.38-7.51(m,7H) IR(KBr)3600-3200(br),1613,1588,1519,1477,1462,1397,1256,1189,1117,1078,1011cm^{-1}
I-194	^{1}HNMR(CDCl$_3$) δ 3.02(s,6H),3.11(s,3H),3.50(s,3H),3.72(s,3H),4.43(brs,1H),4.58(brs,1H),5.18(s,2H),6.82(d,J=8.7Hz,2H),6.92(s,1H),7.16(d,J=9.3Hz,1H),7.31-7.51(m,7H),7.55(d,J=8.7Hz,2H) IR(KBr)3432,1611,1526,1476,1356,1291,1232,1186,1117,1079,1012cm^{-1}
I-195	m.p.157-158℃ ^{1}HNMR(CDCl$_3$) δ 3.10(s,3H),3.21(s,3H),3.56(s,3H),3.69(s,3H),3.76(s,3H),4.47(s,2H),5.17(s,2H),6.68(s,1H),7.12(d,J=8.2Hz,1H),7.34-7.50(m,9H),7.63(d,J=8.6Hz,2H) IR(KBr):1748,1517,1476,1366,1232,1150,1114,968,873,812,791,750,707cm^{-1}
I-196	m.p.189-191℃(dec) ^{1}HNMR(DMSO-d$_6$) δ 3.45(s,3H),3.67(s,3H),4.25(s,2H),5.12(s,2H),6.66(dd,J=8.4,2.0Hz,1H),6.69(s,1H),6.77(d,J=2.0Hz,1H),6.80(d,J=8.6Hz,2H),6.98(d,J=8.4Hz,1H),7.33-7.54(m,7H),9.01(s,1H),9.54(brs,1H) IR(KBr):3422,3245,1733,1611,1596,1522,1478,1400,1262,1248,1222,1207,1130,1084,1011,836,781,744,699cm^{-1}
I-197	m.p.151-152℃ ^{1}HNMR(CDCl$_3$) δ 1.76(s,3H),1.81(s,3H),3.20(s,3H),3.21(s,3H),3.56(s,3H),3.70(s,3H),3.75(s,3H),4.47(s,2H),4.63(d,J=6.9Hz,2H),5.51(t,J=6.9Hz,1H),6.68(s,1H),7.05(d,J=8.4Hz,1H),7.36(dd,J=8.4,2.1Hz,1H),7.36(d,J=8.9Hz,2H),7.41(d,J=2.1Hz,1H),7.63(d,J=8.9Hz,2H) IR(KBr):1751,1517,1475,1366,1234,1150,1113,968,872,812,707cm^{-1}

Table 45

I-198	m.p.155-156℃ ^{1}HNMR(DMSO-d_6) δ 1.72(s,3H),1.76(s,3H),3.42(s,3H),3.67(s,3H),4.25(s,2H),4.54(d,J=6.8Hz,2H),5.49(t,J=6.8Hz,1H),6.65(dd,J=8.4,1.9Hz,1H),6.69(s,1H),6.73(d,J=1.9Hz,1H),6.84(d,J=8.4Hz,2H),7.36(d,J=8.4Hz,1H),7.41(d,J=8.4Hz,2H),8.85(s,1H),9.55(s,1H),11.2-13.6(brs,1H) IR(KBr):3411,3243,1733,1611,1594,1522,1477,1398,1247,1207,1126,1083,1015,835,788cm^{-1}
I-199	^{1}HNMR($CDCl_3$) δ 2.68(s,3H),3.13(s,3H),3.55(s,3H),3.80(s,3H),5.19(s,2H),6.88(s,1H),7.16(d,J=8.7Hz,1H),7.34(d,J=2.1Hz,1H),7.36-7.50(m,6H),7.81(d,J=8.4Hz,2H),7.98(d,J=8.4Hz,2H) IR(KBr)1698,1602,1481,1351,1232,1182,1079cm^{-1}
I-200	^{1}HNMR($CDCl_3$) δ 2.42(s,3H),2.71(s,3H),3.03(s,3H),3.21(s,3H),3.56(s,3H),3.79(s,3H),5.17(s,2H),6.84(s,1H),7.19(d,J=8.4Hz,1H),7.22-7.30(m,3H),7.37(dd,J=8.4,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.41(d,J=2.1Hz,1H),7.41-7.45(m,1H),7.68(d,J=8.7Hz,2H) IR(Nujol)1607,1519,1480,1177,1151,1079,970,875,798cm^{-1}
I-201	^{1}HNMR($CDCl_3$) δ 2.38(s,3H),2.67(s,3H),3.14(s,3H),3.21(s,3H),3.56(s,3H),3.78(s,3H),5.15(s,2H),6.84(s,1H),7.14(d,J=8.4Hz,1H),7.17(brd,J=7.5Hz,1H),7.23-7.30(m,3H),7.34(dd,J=8.4,1.8Hz,1H),7.38(d,J=8.7Hz,2H),7.41(d,J=1.8Hz,1H),7.68(d,J=8.7Hz,2H) IR(Nujol)1606,1519,1482,1180,1150,1078,1011,979,876,790cm^{-1}
I-202	^{1}HNMR($CDCl_3$) δ 2.30(s,3H),2.38(s,6H),2.74(s,3H),2.94(s,3H),3.21(s,3H),3.57(s,3H),3.79(s,3H),5.13(s,2H),6.85(s,1H),6.91(brs,2H),7.37(d,J=8.7Hz,2H),7.40(brs,2H),7.41(dd,J=8.4,1.8Hz,1H),7.69(d,J=8.7Hz,2H) IR($CHCl_3$)1610,1518,1477,1370,1177,1149,1082,970,873cm^{-1}
I-203	^{1}HNMR($CDCl_3$) δ 2.34(s,6H),2.66(s,3H),3.15(s,3H),3.21(s,3H),3.56(s,3H),3.78(s,3H),5.12(s,2H),6.84(s,1H),6.99(brs,1H),7.06(brs,2H),7.14(d,J=8.4Hz,1H),7.33(dd,J=8.4,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.40(d,J=2.1Hz,1H),7.68(d,J=8.7Hz,2H) IR(Nujol)1607,1519,1480,1178,1152,1097,1014,969,876,824,797cm^{-1}

Table 46

I-204	^{1}HNMR(CDCl3) δ 2.72(s,3H),3.16(s,3H),3.21(s,3H),3.55(s,3H),3.78(s,3H),3.94(s,3H),5.25(s,2H),6.84(s,1H),7.11(d,J=8.4Hz,1H),7.34(dd,J=8.4,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.42(d,J=2.1Hz,1H),7.55(d,J=8.4Hz,2H),7.68(d,J=8.7Hz,2H),8.09(d,J=8.4Hz,2H) IR(Nujol)1719,1610,1519,1480,1177,1151,1119,1080,1016,969,875,798cm^{-1}
I-205	m.p.153-157℃ ^{1}HNMR(CDCl$_3$) δ 2.70(s,3H),3.16(s,3H),3.21(s,3H),3.56(s,3H),3.78(s,3H),5.13(s,2H),6.41(dd,J=3.3,2.0Hz,1H),6.49(d,J=3.3Hz,1H),6.84(s,1H),7.20(d,J=8.7Hz,1H),7.37(dd,J=8.7,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.41(d,J=2.1Hz,1H),7.46(d,J=2.0Hz,1H),7.68(d,J=8.7Hz,2H) IR(Nujol)1605,1518,1482,1375,1361,1180,1150,1079,1013,977,876,814,800cm^{-1}
I-206	^{1}HNMR(CDCl$_3$) δ 2.41(s,3H),3.46(s,3H),3.75(s,3H),5.13(s,2H),6.45(s,1H),6.92(d,J=8.7Hz,2H),6.99(dd,J=8.4,2.1Hz,1H),7.07(d,J=8.4Hz,1H),7.09(d,J=2.1Hz,1H),7.22-7.34(m,3H),7.40(brd,J=7.8Hz,1H),7.53(d,J=8.7Hz,2H) IR(Nujol)3471,3436,3339,1612,1581,1523,1489,1266,1245,1228,1185,1110,1070,1011,998,945,823,781cm^{-1}
I-207	^{1}HNMR(CDCl$_3$) δ 2.40(s,3H),3.45(s,3H),3.75(s,3H),5.11(s,2H),6.45(s,1H),6.91(d,J=8.7Hz,2H),6.95(dd,J=8.4,1.8Hz,1H),7.01(d,J=8.4Hz,1H),7.09(d,J=1.8Hz,1H),7.19(brd,J=7.5Hz,1H),7.22-7.34(m,3H),7.53(d,J=8.7Hz,2H) IR(Nujol)3410,1611,1589,1523,1489,1246,1225,1114,1071,1011,939,824,814,778cm^{-1}
I-208	m.p.230-236℃ ^{1}HNMR(DMSO-d$_6$) δ 2.25(s,3H),2.35(s,6H),3.31(s,3H),3.65(s,3H),5.00(s,2H),6.39(s,1H),6.69(dd,J=8.4,1.8Hz,1H),6.76(d,J=1.8Hz,1H),6.84(d,J=8.7Hz,1H),6.90(brs,2H),7.06(d,J=8.4Hz,3H),7.44(d,J=8.7Hz,2H) IR(Nujol)3475,3361,1609,1579,1521,1260,1244,1110,1071,1012,988,822,782cm^{-1}
I-209	^{1}HNMR(CDCl$_3$) δ 2.35(s,6H),3.45(s,3H),3.75(s,3H),5.07(s,2H),6.45(s,1H),6.91(d,J=8.7Hz,2H),6.95(dd,J=8.4,1.8Hz,1H),7.01(brs,1H),7.02(d,J=8.4Hz,1H),7.06(brs,2H),7.08(d,J=1.8Hz,1H),7.53(d,J=8.7Hz,2H) IR(Nujol)3410,1610,1588,1523,1489,1248,1225,1114,1071,1011,940,825,808,cm^{-1}

Table 47

I-210	^{1}HNMR(CD_3OD) δ 3.37(s,3H),3.67(s,3H),5.25(s,2H),6.43(s,1H),6.77(dd,J=8.4,2.1Hz,1H),6.84(d,J=8.7Hz,2H),6.89(d,J=2.1Hz,1H),6.94(d,J=8.4Hz,1H),7.45(d,J=8.7Hz,2H),7.60(d,J=8.4Hz,2H),8.04(d,J=8.4Hz,2H) IR(Nujol)3384,1694,1612,1591,1523,1488,1249,1113,1071,1013,940,826,812,765cm^{-1}
I-211	^{1}HNMR($CDCl_3$) δ 3.45(s,3H),3.74(s,3H),5.09(s,3H),6.41(dd,J=3.3,1.8Hz,1H),6.45(s,1H),6.47(d,J=3.3Hz,1H),6.92(d,J=8.7Hz,2H),6.97(dd,J=8.4,2.1Hz,1H),7.07(d,J=2.1Hz,1H),7.08(d,J=8.4Hz,1H),7.48(dd,J=1.8,1.0Hz,1H),7.54(d,J=8.7Hz,2H) IR(Nujol)3410,1612,1589,1523,1489,1248,1226,1113,1071,1011,939,815,747cm^{-1}
I-212	m.p.156-158℃ ^{1}HNMR($CDCl_3$) δ 1.06(t,J=7.4Hz,3H),1.75(s,3H),2.10(q,J=7.4Hz,2H),3.46(s,3H),3.75(s,3H),4.64(d,J=7.0Hz,2H),5.52(t,J=7.0Hz,1H),6.45(s,1H),6.92(d,J=8.6Hz,2H),6.96(br.s,2H),7.06(br.s,1H),7.53(d,J=8.6Hz,2H) IR(KBr)3392,2960,2934,1610,1583,1568,1523,1492,1465,1406,1259,1241,1224,1198,1118,1071,824,812cm^{-1}
I-213	m.p.175-177℃ ^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.80(s,6H),3.46(s,3H),3.75(s,3H),4.59(s,2H),6.45(s,1H),6.92(d,J=8.7Hz,2H),6.96(br.s,2H),7.06(br.s,1H),7.53(d,J=8.7Hz,2H) IR(KBr)3449,2929,1612,1581,1523,1489,1403,1262,1243,1228,1113,1070,823,807cm^{-1}
I-214	^{1}HNMR($CDCl_3$) δ 1.66(tt,J=6.6,6.6Hz,2H),1.74(tt,J=6.6,6.6Hz,2H),2.32(t,J=6.6Hz,2H),2.34(t,J=6.6Hz,2H),2.71(s,3H),3.21(s,3H),3.24(s,3H),3.56(s,3H),3.78(s,3H),4.62(d,J=6.9Hz,2H),5.60(m,1H),6.84(s,1H),7.09(d,J=8.7Hz,1H),7.34(dd,J=8.7,2.1Hz,1H),7.37(d,J=8.7Hz,2H),7.38(d,J=2.1Hz,1H),7.67(d,J=8.7Hz,2H) IR(KBr)2941,1610,1518,1418,1365,1177,1151,1079,847,818cm^{-1}
I-215	^{1}HNMR($CDCl_3$) δ 1.57-1.72(m,4H),2.05-2.13(m,4H),2.70(s,3H),3.21(s,3H),3.23(s,3H),3.56(s,3H),3.78(s,3H),4.48(s,2H),5.86(s,1H),6.84(s,1H),7.09(d,J=8.4Hz,1H),7.34(dd,J=8.4,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.38(d,J=2.1Hz,1H),7.67(d,J=8.7Hz,2H) IR(KBr)2936,1610,1518,1481,1365,1177,1151,1079,818cm^{-1}

Table 48

I-216	^{1}HNMR($CDCl_3$) δ 1.74(d,J=6.6Hz,3H),2.54(d,J=2.1Hz,1H),2.70(s,3H),3.21(s,3H),3.24(s,3H),3.56(s,3H),3.78(s,3H),5.00(dd,J=6.6,2.1Hz,1H),6.84(s,1H),7.28(d,J=8.7Hz,1H),7.36(dd,J=8.7,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.41(d,J=2.1Hz,1H),7.68(d,J=8.7Hz,2H) IR(KBr)3282,3023,2940,1609,1519,1481,1365,1177,1151,1079,970,815cm^{-1}
I-217	m.p.80-85℃ ^{1}HNMR($CDCl_3$) δ 1.62-1.77(m,4H),2.25-2.39(m,4H),3.46(s,3H),3.75(s,3H),4.60(d,J=7.0Hz,2H),5.63(m,1H),6.45(s,1H),6.92(d,J=8.6Hz,1H),6.95(br.s,2H),7.06(br.s,1H),7.68(d,J=8.6Hz,2H) IR(KBr)3282,3023,2940,1609,1519,1481,1365,1177,1151,1079,970,815cm^{-1}
I-218	foam ^{1}HNMR($CDCl_3$) δ 3.45(s,3H),3.77(s,3H),5.16(s,2H),5.69(brs,1H),5.86(s,1H),6.47(s,1H),6.95(dd,J=2.1,8.4Hz,1H),7.04(d,J=8.4Hz,1H),7.08(d,J=2.1Hz,1H),7.34-7.65(m,7H),7.83-7.92(m,2H) IR($CHCl_3$)3530,3022,1614,1588,1500,1485,1463,1405,1326,1290,1249,1168,1130,1117,1073,1011cm^{-1}
I-219	foam ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.74(s,3H),2.51-2.59(m,2H),2.74(s,3H),3.22(s,3H),3.55(s,3H),3.79(s,3H),4.07(t,J=6.6Hz,2H),5.21(m,1H),6.85(s,1H),7.08(d,J=8.7Hz,1H),7.35(dd,J=2.1,8.7Hz,1H),7.39(d,J=2.1Hz,1H),7.55-7.69(m,2H),7.81-7.87(m,2H) IR($CHCl_3$)3024,1609,1519,1481,1467,1396,1369,1321,1272,1179,1122,1082,1015cm^{-1}
I-220	m.p.124-126℃ ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.75(s,3H),2.50-2.57(m,2H),3.46(s,3H),3.76(s,3H),4.07(t,J=6.9Hz,2H),5.22(m,1H),5.69(brs,1H),5.84(s,1H),6.46(s,1H),6.93-7.05(m,3H),7.55-7.65(m,2H),7.82-7.91(m,2H). IR(KBr)3406,2935,1587,1519,1501,1488,1459,1359,1323,1304,1291,1274,1223,1170,1126,1113,1075,1018cm^{-1}

Table 49

I-221	m.p.187-189℃ ^{1}HNMR($CDCl_3$) δ 2.33(s,3H),2.69(s,3H),3.21(s,3H),3.24(s,3H),3.55(s,3H),3.77(s,3H),4.17(s,2H),6.84(s,1H),7.12&7.25(ABq,J=8.7Hz,4H),7.31(dd,J=8.1Hz,J=1.5Hz,1H),7.38&7.67(ABq,J=8.7Hz,4H),7.42(d,J=8.1Hz,1H),7.46(d,J=1.5Hz,1H) IR(KBr)1512,1474,1417,1391,1356,1343,1177,1149,1082,1054,1013,976,961,939,867,854,844,820,812,799,523cm^{-1}
I-222	m.p.107-112℃ ^{1}HNMR($CDCl_3$) δ 2.73(s,3H),3.22(s,3H),3.28(s,3H),3.55(s,3H),3.77(s,3H),4.34(s,2H),6.84(s,1H),7.19(m,1H),7.30(dd,J=8.1Hz,J=1.8Hz,1H),7.34-7.41(m,3H),7.46(d,J=1.8Hz,1H),7.49(d,J=8.1Hz,1H),7.62-7.69(m,3H),8.55(m,1H) IR(KBr)1474,1389,1364,1179,1151,1081,937,873,813,797,523cm^{-1}
I-223	m.p.212-214℃ ^{1}HNMR($CDCl_3$+CD_3OD) δ 3.45(s,3H),3.74(s,3H),4.13(s,2H),6.45(s,1H),6.90-6.96(m,3H),7.12(d,J=1.8Hz,1H),7.18-7.26(m,2H),7.48-7.54(m,3H),7.68(m,1H),8.63(m,1H) IR(KBr)3504,3272,1612,1596,1574,1521,1492,1463,1436,1405,1362,1310,1265,1222,1172,1116,1083,1052,1017,828cm^{-1}
I-224	m.p.199-200℃ ^{1}HNMR($CDCl_3$) δ 1.46(d,J=0.9Hz,3H),1.77(s,3H),3.44(s,3H),3.74(s,3H),3.90(m,2H),5.25(m,1H),6.04(brs,1H),6.45(s,1H),6.93&7.53(ABq,J=8.7Hz,4H),7.00(m,2H),7.05(m,1H) IR(KBr)3404,2999,2932,1612,1595,1522,1483,1454,1432,1401,1376,1357,1271,1223,1119,1080,1055,1015,974,938,829,817cm^{-1}
I-225	m.p.181-183℃ ^{1}HNMR($CDCl_3$) δ 1.37(s,9H),3.45(s,3H),3.75(s,3H),4.93(brs,1H),6.00(s,1H),6.46(s,1H),6.93&7.54(ABq,J=8.7Hz,4H),6.99(s,1H),7.01(dd,J=8.4Hz,J=1.5Hz,1H),7.16(d,J=1.5Hz,1H),7.49(d,J=8.4Hz,1H) IR(KBr)3495,3412,2959,2931,1610,1568,1552,1521,1499,1477,1459,1400,1364,1319,1270,1227,1192,1161,1116,1102,1090,1052,1019,942,833,817,588cm^{-1}

Table 50

I-226	m.p.154-156℃ ^{1}HNMR($CDCl_3$) δ 2.33(s,3H),3.45(s,3H),3.75(s,3H),3.90(s,2H),4.68(s,1H),5.97(s,1H),6.45(s,1H),6.60(s,1H),6.90-6.98(m,3H),7.10(s,5H),7.41(d,J=8.1Hz,1H),7.53(m,2H) IR(KBr)3462,3368,1611,1550,1521,1499,1472,1455,1437,1401,1362,1321,1293,1267,1229,1187,1174,1164,1118,1077,1050,1011,821cm^{-1}
I-227	m.p.172-174℃ ^{1}HNMR($CDCl_3$) δ 1.38(d,J=1.2Hz,3H),1.76(s,3H),3.44(s,3H),3.75(s,3H),3.87(d,J=7.8Hz,2H),5.08(brs,1H),5.26(m,1H),6.08(s,1H),6.45(s,1H),6.94&7.53(ABq,J=8.7Hz,4H),7.11-7.14(m,2H),7.62(d,J=8.7Hz,1H),8.87(s,1H) IR(KBr)3412,1613,1520,1478,1458,1443,1404,1360,1346,1290,1270,1224,1200,1171,1119,1078,1054,945cm^{-1}
I-228	m.p.173-175℃ ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.74(s,3H),2.10(s,3H),2.50-2.61(m,2H),3.20(s,3H),3.21(s,3H),3.37(s,3H),3.71(s,3H),4.08(t,J=6.8Hz,2H),5.21-5.25(m,1H),6.73(s,1H),7.03-7.18(m,2H),7.23-7.25(m,2H),7.37(d,J=8.6Hz,2H),7.69(d,J=8.8Hz,2H) IR(KBr)3600-3200(br),3100-2800(br),1610,1527,1523,1477,1432,1365,1240,1172,1160,955,923cm^{-1}
I-229	m.p.148-150℃ ^{1}HNMR($CDCl_3$) δ 1.70(s,3H),1.77(s,3H),2.09(s,3H),2.48-2.62(m,2H),3.38(s,3H),3.73(s,3H),4.09(t,J=7.0Hz,2H),4.84(br,1H),5.19-5.22(m,1H),5.70(s,1H),6.71-6.96(m,5H),7.55(d,J=8.2Hz,2H) IR(KBr)3700-3200(br),3100-2800(br),1612,1584,1560,1448,1428,1390,1339,1315,1284,1246,1173,1160,1123,1018,999cm^{-1}
I-230	m.p.194-195℃ ^{1}HNMR($CDCl_3$) δ 2.10(s,3H),2.39(s,3H),3.10(s,3H),3.21(s,3H),3.36(s,3H),3.71(s,3H),5.13(s,2H),6.73(s,1H),7.14-7.18(m,8H),7.69(d,J=9.0Hz,2H) IR(KBr)3600-3200(br),3100-2800(br),1516,1475,1360,1332,1292,1266,1228,1199,1174,1151,1119,1098,1084,1005,968cm^{-1}

Table 51

I-231	m.p.178-180℃ ^{1}HNMR($CDCl_3$) δ 2.09(s,3H),2.40(s,3H),3.37(s,3H),3.72(s,3H),4.97(brs,1H),5.10(s,2H),5.67(br,1H),6.70-6.75(m,2H),6.86-7.03(m,3H),7.22-7.26(m,2H),7.32-7.34(m,2H),7.54(d,J=8.2Hz,2H) IR(KBr)3600-3200(br),3100-2800(br),1611,1519,1479,1463,1388,1339,1314,1286,1258,1246,1225,1128,1098,1077,1007cm^{-1}
I-232	m.p.177-179℃ ^{1}HNMR($CDCl_3$) δ 2.54(s,3H),2.69(s,3H),3.13(s,3H),3.54(s,3H),3.77(s,3H),5.19(s,2H),6.85(s,1H),7.15(d,J=8.4Hz,2H),7.30-7.49(m,9H),7.53-7.59(m,2H) IR($CHCl_3$)1516,1476,1368,1266,1176,1118,1077,1080,1013,970,876,820cm^{-1}
I-233	amorphouspowder ^{1}HNMR($CDCl_3$) δ 2.54(s,3H),3.46(s,3H),3.75(s,3H),5.15(s,2H),5.67(brs,1H),5.90(s,1H),6.46(s,1H),6.95(d.d,J=1.8&8.1Hz,1H),7.02(d,J=8.1Hz,1H),7.09(d,J=1.8Hz,1H),7.31-7.49(m,7H),7.55-7.62(m,2H) IR($CHCl_3$)3526,1517,1483,1414,1389,1289,1246,1192,1114.,1070,1010,937,818cm^{-1}
I-234	^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.81(s,3H),2.73(s,3H),3.24(s,3H),3.53(s,3H),3.79(s,3H),3.96(s,3H),4.64(d,J=6.9Hz,2H),5.49(t,J=6.9Hz,1H),6.87(s,1H),7.09(d,J=8.4Hz,1H),7.35(d.d,J=8.4&2.1Hz,1H),7.39(d,J=2.1Hz,1H),7.71(d,J=8.4Hz,2H),8.13(d,J=8.4Hz,2H)
I-235	^{1}HNMR($CDCl_3$) δ 2.69(s,3H),3.14(s,3H),3.55(s,3H),3.80(s,3H),5.20(s,2H),6.89(s,1H),7.16(d,J=9.0Hz,1H),7.34(d,J=2.1Hz,1H),7.36-7.51(m,6H),7.75(d,J=8.4Hz,2H),8.23(d,J=8.4Hz,2H) IR(KBr)3427,1724,1685,1606,1509,1481,1369,1272,1235,1179,1120,1084,1017cm^{-1}
I-236	^{1}HNMR($CDCl_3$) δ 3.46(s,3H),3.77(s,3H),5.16(s,3H),6.50(s,3H),6.96(dd,J=8..4&2.1Hz,1H),7.03(d,J=8.4Hz,1H),7.09(d,J=2.1Hz,1H),7.34-7.50(m,5H),7.75(d,J=8.1Hz,2H),8.17(d,J=8.1Hz,2H)

Table 52

I-237	^{1}HNMR($CDCl_3$) δ 3.44(s,3H),3.76(s,3H),3.96(s,3H),5.16(s,2H),5.69(s,1H),5.89(s,1H),6.49(s,1H),6.96(d.d,J=8..4&2.1Hz,1H),7.03(d,J=8.4Hz,1H),7.09(d,J=2.1Hz,1H),7.32-7.50(m,5H),7.73(d,J=8.4Hz,2H),8.13(d,J=8.4Hz,2H) IR(KBr)3497,3443,1708,1608,1585,1487,1460,1443,1395,1281,1113,1068,1008cm^{-1}
I-238	^{1}HNMR($CDCl_3$) δ 2.69(s,3H),3.13(s,3H),3.53(s,3H),3.79(s,3H),3.96(s,3H),5.19(s,2H),6.87(s,1H),7.15(d,J=9.0Hz,1H),7.31-7.50(m,7H),7.71(d,J=8.4Hz,2H),8.13(d,J=8.4Hz,2H) IR(KBr)1719,1608,1481,1366,1278,1118,1080,1017cm^{-1}
I-239	^{1}HNMR($CDCl_3$) δ 2.38(s,3H),2.68(s,3H),3.12(s,3H),3.53(s,3H),3.79(s,3H),3.96(s,3H),5.14(s,2H),6.87(s,1H),7.15(d,J=8.7Hz,1H),7.21(d,J=8.4Hz,2H),7.34(d,J=8.4Hz,2H),7.36(d,J=8.7Hz,1H),7.40(d,J=2.1Hz,1H),7.71(d,J=8.7Hz,2H),8.13(d,J=8.4Hz,2H) IR(KBr)1718,1607,1519,1481,1355,1280,1232,1182,1121,1079,1018cm^{-1}
I-240	^{1}HNMR($CDCl_3$) δ 2.70(s,3H),3.03(s,3H),3.12(s,3H),3.55(s,3H),3.77(s,3H),5.18(s,2H),6.78-6.89(broad,1H),6.86(s,1H),7.14(d,J=8.4Hz,1H),7.31-7.49(m,8H),7.55(d,J=8.4Hz,2H) IR(KBr)1604,1526,1483,1395,1374,1360,1292,1231,1177,1119,1078,1014cm^{-1}
I-241	^{1}HNMR($CDCl_3$) δ 2.37(s,3H),2.69(s,3H),3.05(s,3H),3.12(s,3H),3.55(s,3H),3.77(s,3H),5.14(s,2H),6.85(s,1H),6.81-6.91(broad,2H),7.14(d,J=8.4Hz,1H),7.21(d,J=8.1Hz,1H),7.34(d,J=8.1Hz,2H),7.40(d,J=2.1Hz,1H),7.56(d,J=8.4Hz,2H) IR(KBr)1605,1529,1484,1396,1356,1275,1233,1178,1121,1078,1016cm^{-1}
I-242	^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.81(s,3H),2.73(s,3H),3.03(s,6H),3.22(s,3H),3.55(s,3H),3.77(s,3H),4.63(d,J=6.6Hz,2H),5.49(t,J=6.6Hz,1H),6.75-6.91(broad,2H),6.86(s,1H),7.08(d,J=8.7Hz,1H),7.34(d.d,J=8.7&2.1Hz,1H),7.39(d,J=2.1Hz,1H),7.55(d,J=8.7Hz,1H) IR(KBr)1609,1529,1482,1363,1235,1178,1117,1078,1013cm^{-1}
I-243	IR(KBr)3409,1608,1509,1464,1367,1230,1175,1149,1079,1018cm^{-1}

Table 53

I-244	^{1}HNMR(CDCl$_3$) δ 1.72(s,3H),1.76(s,3H),2.55(m,2H),3.22(s,3H),3.45(s,3H),3.72(s,3H),4.07(d,J=6.6Hz,2H),4.46(d,J=10.5Hz,1H),4.51(d,J=10.5Hz,1H),4.66(d,J=10.5Hz,1H),4.75(d,J=10.5Hz,1H),5.24(brs,1H),6.84(s,1H),6.95(d,J=8.7Hz,1H),7.02(s,1H),7.21(d,J=8.7Hz,1H),7.39(d,J=9.0Hz,2H)7.71(d,J=9.0Hz,2H) IR(KBr)3307,1609,1509,1465,1364,1235,1180,1152,1082,1021cm^{-1}
I-245	m.p.182-184℃ ^{1}HNMR(CDCl$_3$) δ 2.42(s,3H),2.70(s,3H),3.13(s,3H),3.53(s,3H),3.77(s,3H),5.19(s,2H),6.86(s,1H),7.13-7.53(m,12H) IR(KBr)3434,3030,2937,1605,1522,1483,1366,1274,1235,1176,1119,1086,1011cm^{-1}
I-246	^{1}HNMR(CDCl$_3$) δ 2.58(s,3H),3.21(s,3H),3.55(s,3H),3.77(s,3H),3.91(s,3H),5.26(m,2H),6.84(s,1H),7.12(d,J=9.0Hz,1H),7.27-7.54(m,8H),7.60(d,J=8.7Hz,2H),7.90(d,J=2.1Hz,1H) IR(KBr)1728,1699,1605,1513,1480,1362,1239,1175,1150,1083,1017cm^{-1}
I-247	IR(KBr)1729,1607,1512,1479,1366,1234,1177,1151,1079,1015cm^{-1}
I-248	^{1}H NMR (CDCl$_3$) δ 1.75 (s, 3H), 1.79 (s, 3H), 2.57 (s, 3H), 3.21 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 3.89 (s, 3H), 4.63 (d, J = 6.6Hz, 2H), 5.49 - 5.58 (m, 1H), 6.85 (s, 1H), 6.93 - 7.00 (m, 3H), 7.38 (d, J = 8.7Hz, 2H), 7.70 (d, J = 8.7Hz, 2H) IR(KBr)1603, 1518, 1482, 1365, 1239, 1176, 1150, 1078cm^{-1}
I-249	foam ^{1}HNMR(CDCl$_3$) δ 2.30(br,1H),2.76-2.82(m,2H),3.64-3.68(m,2H)3.87(s,1H),5.14(s,2H),5.70(s,1H),6.70(dd,J=2.1,8.4Hz,1H),6.78(s,1H),6.84(d,J=1.8Hz,1H),6.97-7.01(m,3H),7.37-7.49(m,5H),7.56-7.61(m,2H) IR(KBr)3600-2800(br),1608,1583,1517,1464,1387,1287,1247,1225,1178,1082,1015cm^{-1}
I-250	m.p.104-105℃ ^{1}HNMR(CDCl$_3$) δ 0.76(t,J=7.5Hz,3H),1.44-1.54(m,2H),3.61(s,3H),3.71(t,J=6.6Hz,2H),3.74(s,3H),3.87(s,3H),5.16(s,2H),5.63(s,1H),6.66(s,1H),6.90(dd,J=2.1,8.4Hz,1H),6.96-7.01(m,4H),7.04(d,J=1.8Hz,1H),7.37-7.48(m,5H),7.51-7.56(m,2H) IR(KBr)3600-2800(br),1608,1593,1518,1474,1462,1379,1294,1251,1226,1183,1109,1078,1040,1008cm^{-1}

Table 54

I-251	m.p.103-105℃ ^{1}HNMR(CDCl$_3$) δ 0.78(t,J=7.2Hz,3H),1.15-1.27(m,2H),1.43-1.51(m,2H),3.61(s,3H),3.73-3.77(m,2H),3.74(s,3H),3.87(s,3H),5.16(s,2H),5.63(s,1H),6.65(s,1H),6.90(dd,J=2.1,8.1Hz,1H),6.96-7.01(m,3H),7.04(d,J=2.1Hz,1H),7.37-7.48(m,5H),7.51-7.56(m,2H) IR(KBr)3600-2800(br),1607,1518,1467,1375,1288,1251,1179,1113,1084,1020,1008cm^{-1}
I-252	m.p.111.5-112.5℃ ^{1}HNMR(CDCl$_3$) δ 0.78(t,J=7.5Hz,3H),1.15-1.27(m,2H),1.41-1.50(m,2H),3.10(s,3H),3.61(s,3H),3.73-3.78(m,2H),3.74(s,6H),5.18(s,2H),6.66(s,1H),6.96-7.01(m,2H),7.10(d,J=8.7Hz,1H),7.26-7.55(m,9H) IR(KBr)3600-2800(br),1609,1518,1464,1440,1375,1355,1289,1269,1249,1181,1170,1107,1080,1019cm^{-1}
I-253	^{1}HNMR(CDCl$_3$) δ 1.76(s,3H),1.82(s,3H),3.45(s,3H),3.76(s,3H),4.62(d,J=8.4Hz,2H),5.54(t,J=8.4Hz,1H),6.49(s,1H),6.91-6.99(m,2H),7.05(d,J=1.5Hz),7.74(d,J=8.7Hz,2H),8.15(d,J=8.7Hz,2H) IR(KBr)3474,1687,1607,1509,1417,1397,1316,1287,1240,1109,1071,1006cm^{-1}
I-254	^{1}HNMR(CDCl$_3$) δ 2.39(s,3H),3.45(s,3H),3.76(s,3H),5.11(s,2H),6.49(s,1H),6.94(dd,J=8.4&1.8Hz,1H),7.04(d,J=8.4Hz,1H),7.06(d,J=1.8Hz),7.19-7.38(m,4H),7.73(d,J=8.4Hz,2H),8.14(d,J=8.4Hz,2H) IR(KBr)3549,3466,1668,1603,1518,1489,1465,1449,1421,1397,1372,1288,1236,1186,1117,1074,1017cm^{-1}
I-255	^{1}HNMR(CDCl$_3$) δ 1.76(s,3H),1.82(s,3H),3.02(s,6H),3.48(s,3H),3.74(s,3H),4.61(d,J=7.2Hz,2H),5.53(t,J=7.2Hz,1H),5.66(s,1H),5.92(s,1H),6.47(s,1H),6.81(broad,2H),6.95(s,2H),7.06(s,1H),7.56(d,J=8.7Hz,2H) IR(KBr)3535,3494,3452,1606,1526,1487,1406,1357,1288,1242,1195,1112cm^{-1}
I-256	^{1}HNMR(CDCl$_3$) δ 2.39(s,3H),3.02(s,6H),3.48(s,3H),3.74(s,3H),5.10(s,2H),5.66(s,1H),5.93(s,1H),6.47(s,1H),6.82(d,J=8.4Hz,2H),6.96(dd,J=8.1&1.8Hz,1H),7.02(d,J=8.1Hz,1H),7.08(d,J=1.8Hz,1H),7.23(d,J=7.8Hz,2H),7.34(d,J=7.8Hz,2H),7.56(d,J=8.4Hz,2H) IR(KBr)3536,3379,1610,1586,1528,1489,1460,1443,1361,1288,1250,1225,1195,1117,1072,1008cm^{-1}

Table 55

I-257	^{1}HNMR($CDCl_3$) δ 1.71(s,3H),1.76(s,3H),2.49-2.60(m,2H),3.44(s,3H),3.70(s,3H),4.06(t,J=6.3Hz,2H),4.48(d,J=6.0Hz,2H),4.71(d,J=8.7Hz,2H),5.23(t,J=8.7Hz,1H),5.37(bronds,1H),6.84(s,1H),6.91-6.97(m,1H),6.92(d,J=8.4Hz,2H),7.18-7.23(m,2H),7.52(d,J=8.7Hz,2H) IR(KBr)3398,1612,1518,1465,1389,1232,1174,1131,1101,1081,1023cm^{-1}
I-258	^{1}HNMR($CDCl_3$) δ :3.21(s,3H),3.41(s,3H),3.63(s,3H),3.77(s,3H),4.76(s,2H), 5.15(s,2H),6.94(s,1H),6.99(d,J=8.7Hz,1H),7.23-7.49 (m, 9H), 7.71(d,J=8.7Hz,2H) IR(KBr)3497,1738,1721,1607,1509,1469,1362,1242,1152,1056,1017cm^{-1}
I-259	foam ^{1}HNMR($CDCl_3$) δ 2.35(s,6H),2.73(s,3H),2.79(t,J=5.7Hz,2H),3.21(s,3H),3.31(s,3H),3.56(s,3H),3.78(s,3H),4.19(t,J=5.7Hz,2H),6.84(s,1H),7.09(d,J=8.4Hz,1H),7.34-7.41(m,4H),7.66-7.71(m,2H) IR(KBr)3600-2700(br),1519,1481,1365,1273,1200,1177,1151,1120,1079,1015cm^{-1}
I-260	foam ^{1}HNMR($CDCl_3$+CD_3OD) δ 2.71(t,J=5.1Hz,2H),3.46(s,6H),3.73(s,6H),4.11(t,J=5.1Hz,2H),6.44(s,1H),6.87-6.99(m,4H),7.04(d,J=2.1Hz,1H),7.49-7.53(m,2H) IR(KBr)3600-2200(br),1607,1583,1519,1475,1407,1390,1275,1252,1226,1114,1062cm^{-1}
I-261	m.p.85-87℃ ^{1}HNMR($CDCl_3$) δ 3.49(s,3H),3.75(s,3H),5.15(s,2H),5.23(brs,1H),5.68(brs,1H),5.89(s,1H),6.43(s,1H),6.95(dd,J=8.3,2.1Hz,1H),7.03(d,J=8.3Hz,1H),7.08(d,J=2.1Hz,1H),7.08(t,J=8.7Hz,1H),7.33(ddd,J=8.7,2.1,1.2Hz1H),7.37-7.47(m,6H) IR(KBr)3410,1525,1488,1284,1248,1102,1010,759,704cm^{-1}

Table 56

I-262	m.p.138-140℃ ^{1}HNMR(CDCl$_3$) δ 1.77(s,3H),1.82,(s,3H),3.21(s,3H),3.22(s,3H),3.48(s,3H),3.78(s,3H),4.64(d,J=6.5Hz,2H),5.51(t,J=6.5Hz,1H),7.05(d,J=8.5Hz,1H),7.08(s,1H),7.14(dd,J=8.5,2.2Hz,1H),7.34(d,J=2.2Hz,1H),7.40(d,J=8.7Hz,2H),7.69(d,J=8.7Hz,2H),10.00(s,1H) IR(KBr)1693,1514,1470,1361,1348,1275,1239,1175,1151,979,969,867,845,815cm^{-1}
I-263	foam ^{1}HNMR(DMSO-d$_6$) δ 1.74(s,3H),1.78(s,3H),3.32(s,3H),3.44(s,3H),3.76(s,3H),4.66(d,J=6.6Hz,2H),5.49(t,J=6.6Hz,1H),7.11(s,1H),7.23-7.25(m,3H),7.48(d,J=8.6Hz,2H),7.77(d,J=8.6Hz,2H),13.1(brs,1H) IR(KBr)3431,1737,1518,1471,1177,1151,972,864,849cm^{-1}
I-264	m.p.153.5-155.5℃ ^{1}HNMR(CDCl$_3$) δ 2.58(s,3H),3.52(s,3H),3.77(s,3H),5.21(s,2H),6.83(s,1H),7.04-7.24(m,5H),7.30-7.49(m,5H),7.56-7.65(m,2H) IR(CHCl$_3$)1607,1520,1481,1412,1368,1298,1267,1131,1080,1012,960,942,907,869,836,812cm^{-1}
I-265	dp>116℃ ^{1}HNMR(CDCl$_3$+CD$_3$OD) δ 2.69(s,3H),3.15(s,3H),3.16(s,3H),3.57(s,3H),3.80(s,3H),5.21(s,2H),6.88(s,1H),7.19(d,J=8.4Hz,1H),7.34-7.51(m,7H),7.83-7.90(m,2H),8.01-8.07(m,5H) IR(KBr)3434,3028,2934,1596,1519,1460,1365,1308,1276,1173,1148,1119,1108,1012,946,841,819cm^{-1}
I-266	m.p.136-138℃ ^{1}HNMR(CDCl$_3$) δ 3.43(s,3H),3.75(s,3H),5.19(s,2H),5.98(s,1H),6.44(s,1H),7.04-7.52(m,10H),7.57-7.65(m,5H) IR(CHCl$_3$)3496,1612,1521,1488,1454,1412,1391,1313,1267,1157,1113,1069,1010,934,825cm^{-1}

Table 57

I-267	foam ^{1}HNMR($CDCl_3$) δ 2.38(s,3H),3.10(s,3H),3.21(s,3H),3.41(s,3H),3.67(s,3H),3.77(s,3H),5.11(s,2H),6.93(s,1H),7.09(d,J=8.6Hz,1H),7.21(d,J=8.2Hz,2H),7.27(d,J=2.1Hz,1H),7.35(d,J=8.2Hz,2H),7.38(d,J=8.9Hz,2H),7.70(d,J=8.9Hz,2H) IR(KBr)1733,1518,1471,1367,1297,1177,1151,1118,1059,971,862,815cm^{-1}
I-268	amorphous ^{1}HNMR(DMSO-d_6) δ 1.64(s,3H),1.70(s,3H),2.44(q,J=7.2Hz,2H),3.30(s,3H),3.70(s,3H),3.93(t,J=7.2Hz,2H),5.26(t,J=7.2Hz,1H),6.64(dd,J=8.6,2.1Hz,1H),6.74(d,J=2.1Hz,1H),6.87(d,J=8.9Hz,2H),6.87(d,J=8.6Hz,1H),6.96(s,1H),7.48(d,J=8.9Hz,2H),8.84(s,1H),9.59(s,1H),12.8(brs,1H) IR($CHCl_3$)3594,3540,1743,1707,1520,1470,1260,1058cm^{-1}
I-269	m.p.206-208℃(dec.) ^{1}HNMR(DMSO-d_6) δ 2.32(s,3H),3.32(s,3H),3.66(s,3H),5.05(s,2H),6.66(dd,J=8.2,2.1Hz,1H),6.79(d,J=2.1Hz,1H),6.83(s,1H),6.84(d,J=8.6Hz,2H),6.89(d,J=8.2Hz,1H),7.20(d,J=8.0Hz,2H),7.38(d,J=8.0Hz,2H),7.45(d,J=8.6Hz,2H),8.91(s,1H),9.68(s,1H),12.7(brs,1H) IR(KBr)3413,1710,1612,1591,1520,1471,1377,1227,1083,1059,1013,837,809cm^{-1}
I-270	foam ^{1}HNMR($CDCl_3$) δ 2.42(s,3H),3.45(s,3H),3.75(s,3H),5.15(s,2H),5.68(s,1H),5.93(s,1H),6.47(s,1H),6.96(dd,J=1.8,8.1Hz,1H),7.03(d,J=1.8Hz,1H),7.25-7.28(m,2H),7.35-7.48(m,5H),7.52-7.56(m,2H) IR($CHCl_3$)3535,3014,1616,1588,1559,1523,1513,1490,1463,1455,1417,1396,1317,1290,1247,1194,1115,1072,1012cm^{-1}
I-271	m.p.143-145℃ ^{1}HNMR($CDCl_3$) δ 2.70(s,3H),3.12(s,3H),3.54(s,3H),3.73(s,3H),3.84(s,3H),5.18(s,2H),6.83(s,1H),7.00-7.07(m,2H),7.14(d,J=8.4Hz,1H),7.33-7.49(m,9H) IR(KBr)3434,2940,1609,1520,1482,1396,1369,1293,1283,1243,1178,1114,1080,1021,1009cm^{-1}

Table 58

1-272	foam ^{1}HNMR($CDCl_3$) δ 3.45(s,3H),3.71(s,3H),3.86(s,3H),5.15(s,2H),5.67(s,1H),5.84(s,1H),6.42(s,1H),6.98(dd,J=1.8,8.4Hz,1H),7.01-7.07(m,2H),7.11(d,J=1.8Hz,1H),7.35-7.45(m,8H) IR($CHCl_3$)3534,3024,1617,1587,1517,1503,1483,1462,1409,1290,1247,1226,1215,1122,1104,1072,1013cm^{-1}
1-273	m.p.155-156℃ ^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.81(s,3H),2.42(s,3H),2.73(s,3H),3.23(s,3H),3.53(s,3H),3.77(s,3H),4.63(d,J=6.6Hz,2H),5.49(m,1H),6.86(s,1H),7.09(d,J=8.4Hz,1H),7.25-7.53(m,6H) IR(KBr)3434,2935,1605,1522,1465,1388,1365,1292,1273,1176,1119,1084,1011cm^{-1}
1-274	m.p.138-140℃ ^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.81(s,3H),2.73(s,3H),3.22(s,3H),3.54(s,3H),3.73(s,3H),3.84(s,3H),4.63(d,J=6.9Hz,2H),5.50(m,1H),6.83(s,1H),7.01-7.04(m,2H),7.08(d,J=8.4Hz,1H),7.26(d,J=0.6Hz,1H),7.34-7.43(m,3H) IR(KBr)3433,2937,1608,1519,1480,1400,1368,1292,1271,1244,1179,1112,1081,1011cm^{-1}
1-275	m.p.95-97℃ ^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.82(s,3H),2.42(s,3H),3.45(s,3H),3.74(s,3H),4.61(d,J=6.6Hz,2H),5.52(m,1H),5.69(s,1H),6.47(s,1H),6.95-7.07(m,3H),7.25-7.28(m,2H),7.52-7.55(m,2H) IR(KBr)3479,2935,1613,1585,1523,1509,1490,1458,1415,1395,1362,1315,1249,1196,1112,1070,1005cm^{-1}
1-276	m.p.155-158℃ ^{1}HNMR($CDCl_3$) δ 1.76(d,J=0.9Hz,3H),1.82(d,J=0.9Hz,3H),3.45(s,3H),3.86(s,3H),4.61(d,J=6.9Hz,2H),5.35(m,1H),5.68(s,1H),5.82(s,1H),6.42(s,1H),6.96-7.09(m,4H),7.35-7.41(m,2H) IR(KBr)3428,3005,2952,1613,1583,1517,1505,1487,1464,1451,1411,1387,1359,1317,1289,1245,1140,1101,1070,1013cm^{-1}

Table 59

I-277	m.p.173-175℃ ^{1}HNMR($CDCl_3$) δ 1.68(s,3H),1.74(s,3H),2.42(s,3H),2.51-2.60(m,2H),2.75(s,3H),3.21(s,3H),3.53(s,3H),3.76(s,3H),4.07(t,J=6.9Hz,2H),5.21(m,1H),6.86(s,1H),7.06(d,J=8.7Hz,1H),7.25-7.28(m,2H),7.35(dd,J=2.1,8.7Hz,1H),7.40(d,J=2.1Hz,1H),7.50-7.53(m,2H) IR(KBr)3434,2934,1606,1523,1482,1388,1369,1277,1236,1177,1118,1085,1012cm^{-1}
I-278	m.p.151-154℃ ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.74(d,J=0.9Hz,3H),2.51-2.59(m,2H),2.75(s,3H),3.21(s,3H),3.54(s,3H),3.73(s,3H),3.84(s,3H),4.07(t,J=6.9Hz,2H),5.21(m,1H),6.83(s,1H),7.00-7.08(m,3H),7.34-7.43(m,4H) IR(KBr)3434,2935,1610,1581,1522,1479,1399,1362,1283,1246,1180,1125,1114,1082,1046cm^{-1}
I-279	m.p.90-92℃ ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.75(s,3H),2.42(s,3H),2.49-2.56(m,2H),3.45(s,3H),3.74(s,3H),4.06(t,J=6.6Hz,2H),5.22(m,1H),5.67(s,1H),5.90(s,1H),6.46(s,1H),6.94-7.06(m,3H),7.25-7.28(m,2H),7.52-7.55(m,2H) IR(KBr)3529,3381,2927,1616,1586,1522,1490,1465,1418,1398,1360,1315,1289,1251,1225,1192,1114,1070,1011cm^{-1}
I-280	m.p.82-84℃ ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.75(s,3H),2.49-2.56(m,2H),3.45(s,3H),3.71(s,3H),3.85(s,3H),4.06(t,J=6.6Hz,2H),5.22(m,1H),5.67(s,1H),5.82(s,1H),6.42(s,1H),6.92-7.09(m,5H),7.35-7.43(m,2H) IR(KBr)3420,3326,2935,1615,1583,1518,1504,1486,1466,1410,1316,1289,1249,1122,1101,1071,1018cm^{-1}
I-281	m.p.166-168℃ ^{1}HNMR($CDCl_3$) δ 2.38(s,3H),2.69(s,3H),3.11(s,3H),3.54(s,3H),3.73(s,3H),3.84(s,3H),5.14(s,2H),6.83(s,1H),7.00-7.44(m,11H) IR(KBr)3434,2941,1608,1521,1498,1482,1466,1397,1368,1284,1243,1177,1113,1079,1019cm^{-1}

Table 60

I-282	m.p.109-111℃ ^{1}HNMR($CDCl_3$) δ 2.39(s,3H),3.45(s,3H),3.71(s,3H),3.85(s,3H),5.10(s,2H),5.67(s,1H),5.83(s,1H),6.42(s,1H),6.95-7.41(m,11H) IR($CHCl_3$)3497,2935,1610,1583,1519,1499,1481,1465,1399,1312,1274,1245,1185,1120,1102,1067,1012cm^{-1}
I-283	^{1}HNMR($CDCl_3$) δ 2.38(s,3H),2.68(s,3H),3.12(s,3H),3.53(s,1H),3.77(s,3H),5.14(s,2H),6.83(s,1H),7.10-7.24(m,5H),,7.33(d,J=8.4Hz,1H),7.34(d,J=8.4Hz,2H),7.40(d,J=2.1Hz,1H)7.56-7.64(m,2H) IR(KBr)1603,1520,1482,1367,1297,1277,1251,1232,1176,1120,1084,1012cm^{-1}
I-284	^{1}HNMR($CDCl_3$) δ 2.39(s,3H),3.45(s,3H),3.75(s,3H),5.10(s,2H),5.68(s,1H),5.88(s,1H),6.44(s,1H),6.95(dd,J=8.4&2.1Hz,1H),7.03(d,J=8.4Hz,1H),7.07(d,J=2.1Hz,1H),7.08-7.29(m,4H),7.34(d,J=8.4Hz,2H),7.56-7.65(m,2H)s IR(KBr)3504,3330,1604,1596,1490,1461,1455,1424,1360,1318,1242,1223,1121,1071,1009cm^{-1}
I-285	^{1}HNMR($CDCl_3$) δ 2.69(s,3H),3.13(s,3H),3.56(s,3H),3.78(s,3H),5.19(s,2H),6.85(s,1H),7.05-7.15(m,1H),7.15(d,J=8.4Hz,1H),7.30-7.49(m,10H) IR(KBr)1610,1583,1517,1475,1455,1359,1296,1270,1239,1180,1116,1088,1013cm^{-1}
I-286	^{1}HNMR($CDCl_3$) δ 3.47(s,3H),3.75(s,3H),5.15(s,2H),5.68(s,1H),5.89(s,1H),6.46(s,1H),6.95(dd,J=8.4&2.1Hz,1H),7.03(d,J=8.4Hz,1H),7.04-7.12(m,2H),7.35-7.51(m,9H) IR(KBr)3543,3346,1612,1586,1566,1518,1502,1479,1407,1362,1320,1239,1110,1068,1006cm^{-1}
I-287	^{1}HNMR($CDCl_3$) δ 2.68(s,3H),3.14(s,3H),3.58(s,3H),3.81(s,3H),5.20(s,2H),6.88(s,1H),7.16(d,J=8.7Hz,1H),7.32-7.49(m,7H),7.60-7.68(m,1H),7.98-8.04(m,1H),8.24-8.29(m,1H),8.44-8.47(m,1H) IR(KBr)1609,1531,1362,1270,1239,1178,1122,1085,1014cm^{-1}
I-288	^{1}HNMR($CDCl_3$) δ 3.49(s,3H),3.78(s,3H),5.17(s,2H),5.71(s,1H),5.83(s,1H),6.49(s,1H))6.95(dd,J=12.3&1.2Hz,1H),7.02(d,J=12.3Hz,1H),7.08(d,J=1.2Hz,1H),7.33-7.50(m,5H),7.60-7.68(m,1H),7.97-8.06(m,1H),8.21-8.27(m,1H),8.52(s,1H) IR(KBr)3528,3358,1588,1527,1499,1454,1406,1348,1314,1241,1122,1070,1009cm^{-1}

Table 61

I-289	^{1}HNMR($CDCl_3$) δ 2.68(s,3H),3.13(s,3H),3.55(s,3H),3.77(s,3H),5.19(s,2H),6.79-6.88(m,1H),6.86(s,1H),7.02-7.10(m,2H),7.15(d,J=8.4Hz,1H),7.26-7.50(m,8H) IR(KBr)3479,3388,1623,1603,1518,1478,1396,1358,1176,1118,1081,1013cm^{-1}
I-290	^{1}HNMR($CDCl_3$) δ 3.11(s,3H),3.45(s,3H),3.77(s,3H),5.17(s,2H),6.05(s,1H),6.46(s,1H))7.00-7.18(m,1H),7.14(d,J=8.4Hz,1H),7.33-7.50(m,9H),7.52(d,J=2.1Hz,1H) IR(KBr)3504,1612,1578,1519,1498,1464,1391,1355,1290,1276,1239,1183,1167,1107,1070,1004cm^{-1}
I-291	^{1}HNMR($CDCl_3$+CD_3OD) δ 3.44(s,3H),3.75(s,3H),4.74(s,2H),5.13(s,2H),1H),6.86-6.95(m,3H),6.99(d,J=8.7Hz,1H),7.30-7.48(m,7H),7.52(d,J=8.7Hz,2H) IR(KBr)3433,1707,1611,1518,1473,1463,1379,1250,1174,1132,1089,1058,1016cm^{-1}
I-292	^{1}HNMR($CDCl_3$+CD_3OD) δ 3.41(s,3H),3.62(s,3H),3.75(s,3H),4.74(s,2H),5.15(s,2H),6.87-7.01(m,4H),7.30-7.55(m,9H) IR(KBr)3386,1722,1611,1518,1464,1343,1271,1245,1233,1215,1168,1082,1060,1021cm^{-1}
I-293	^{1}HNMR($CDCl_3$) δ 2.38(s,3H),2.69(s,3H),3.12(s,3H),3.56(s,3H),3.78(s,3H),5.14(s,2H),6.85(s,1H),7.05-7.45(m,12H) IR(KBr)1607,1584,1519,1479,1401,1364,1348,1280,1237,1178,1164,1115,1081,1016cm^{-1}
I-294	foam ^{1}HNMR($CDCl_3$) δ 3.45(s,3H),3.75(s,3H),4.36(d,J=2.1Hz,1H),4.55(s,2H),4.76(d,J=2.1Hz,1H),6.45,(s,1H),6.92(d,J=8.7Hz,2H),6.99(d,J=8.4Hz,1H),7.20(dd,J=1.5and8.4Hz,1H),7.11(d,J=1.5Hz,1H),7.53(d,J=8.7Hz,2H) IR(Nujol)3425,1612,1588,1523,1487,1295,1268,1228,1113,1069,825cm^{-1}
I-295	foam ^{1}HNMR($CDCl_3$) δ 2.78(s,3H),3.21(s,3H),3.23(s,3H),3.55(s,3H),3.78(s,3H),4.79(d,J=6.6Hz,2H),6.21(t,J=6.6Hz,1H),6.85(s,1H),7.08(d,J=8.7Hz,1H),7.37(dd,J=8.7,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.41(d,J=2.1Hz,1H),7.68(d,J=8.7Hz,2H) IR(Nujol)1632,1607,1519,1482,1180,1150,1079,1011,976,876,814,798cm^{-1}

Table 62

I-296	foam ^{1}HNMR(CD_3OD) δ 3.38(s,3H),3.68(s,3H),4.12(brs,2H),4.65(brs,2H),5.01(m,2H),6.43(s,1H),6.78(dd,J=8.7,1.8Hz,1H),6.85(d,J=8.7,2H),6.86(d,J=1.8Hz,1H),6.94(d,J=8.4Hz,1H),7.46(d,J=8.7Hz,2H) IR(Nujol)3411,1612,1591,1520,1485,1461,1253,1223,1115,1008,971,944,842,810,785cm^{-1}
I-297	foam ^{1}HNMR(CD_3OD) δ 3.38(s,3H),3.68(s,3H),4.73(d,J=5.1Hz,2H),4.23(d,J=5.1Hz,2H),5.83(m,2H),6.43(s,1H),6.79(dd,J=8.7,1.8Hz,1H),6.85(d,J=8.7,2H),6.86(d,J=1.8Hz,1H),6.94(d,J=8.7Hz,2H) IR(Nujol)3393,1611,1588,1523,1489,1460,1248,1114,1071,1013,940,824cm^{-1}
I-298	foam ^{1}HNMR(CD_3OD) δ 1.77(s,3H),3.38(s,3H),3.68(s,3H),4.00(s,2H),5.72(d,J=6.3Hz,2H),5.81(t,J=6.3Hz,1H),6.43(s,1H),6.79(dd,J=8.7,1.8Hz,1H),6.85(d,J=8.7,2H),6.85(d,J=1.8Hz,1H),6.94(d,J=8.4Hz,1H),7.46(d,J= 8.7Hz,2H) IR(Nujol)3384,1608,1585,1523,1494,1457,1262,1242,1227,1116,1078,1008,985,822,781cm^{-1}
I-299	foam ^{1}HNMR(CD_3OD) δ 1.87(s,3H),3.83(s,3H),3.68(s,3H),4.17(s,2H),4.69(d,J=6.6Hz,2H),5.68(t,J=6.3Hz,1H),6.43(s,1H),6.79(dd,J=8.7,1.8Hz,1H),6.85(d,J=8.4,2H),6.85(d,J=1.8Hz,1H),6.94(d,J=8.4Hz,1H),7.46(d,J=8.7Hz,2H) IR(Nujol)3350,3236,1606,1589,1524,1490,1463,1247,1227,1079,1011,992,819,790cm^{-1}
I-300	foam ^{1}HNMR($CDCl_3$) δ 1.87(s,3H),2.10(s,3H),3.45(s,3H),3.74(s,3H),4.68(s,2H),4.71(d,J=6.0Hz,2H),5.77(t,J=6.0Hz,1H),6.44(s,1H),6.92(d,J=8.0Hz,2H),6.95(m,2H),7.07(brs,1H),7.53(d,J=6.0Hz,2H) IR(Nujol)3409,1724,1612,1587,1523,1489,1460,1239,1114,1071,1012,940,825,781cm^{-1}

Table 63

I-301	foam ^{1}HNMR(CD_3OD) δ 2.93(d,J=2.1Hz,1H),3.38(s,3H),3.68(s,3H),4.06(dd,J=9.9,7.8Hz,1H),4.20(dd,J=9.9,3.6Hz,1H),4.74(ddd,J=7.8,3.6,2.1Hz,1H),6.44(s,1H),6.80(dd,J=8.4,1.8Hz,1H),6.85(d,J=8.7,2H),6.87(d,J=1.8Hz,1H),6.96(d,J=8.4Hz,1H),7.46(d,J=8.7Hz,2H) IR(Nujol)3282,1655,1612,1588,1523,1489,1460,1254,1226,1072,1013,940,825cm^{-1}
I-302	foam ^{1}HNMR(CD_3OD) δ 3.30(s,3H),3.68(s,3H),4.75(d,J=5.1Hz,2H),6.44(s,1H),6.80(dd,J=8.4,1.8Hz,1H),6.85(d,J=8.4,2H),6.92(d,J=1.8Hz,1H),6.99(d,J=8.7Hz,1H),7.42(t,J=5.1Hz,1H),7.46(d,J=8.4Hz,2H) IR(Nujol)3474,3316,1678,1611,1584,1523,1487,1458,1268,1231,1115,1171,1011,942,824,758cm^{-1}
I-303	foam ^{1}HNMR(CD_3OD) δ 1.24(d,J=7.2Hz,3H),3.38(s,3H),3.68(s,3H),4.12(q,J=7.2Hz,2H),4.75(d,J=4.8Hz,2H),6.43(s,1H),6.80(dd,J=8.4,1.8Hz,1H),6.85(d,J=8.7,2H),6.91(d,J=1.8Hz,1H),6.99(d,J=8.4Hz,2H),7.46(d,J=8.7Hz,2H),7.52(t,J=4.8Hz,1H) IR(Nujol)3306,1715,1612,1587,1523,1487,1460,1266,1232,1115,1070,824,760cm^{-1}
I-304	foam ^{1}HNMR($CDCl_3$) δ 2.34(s,3H),2.38(s,3H),2.70(s,3H),3.07(s,3H),3.21(s,3H),3.56(s,3H),3.78(s,3H),5.13(s,2H),6.84(s,1H),7.03(d,J=7.8Hz,1H),7.06(s,1H),7.18(d,J=8.4Hz,1H),7.28(d,J=7.8Hz,1H),7.36(dd,J=2.1,8.4Hz,1H),7.38(d,J=8.7Hz,2H),7.40(d,J=2.1Hz,1H),7.68(d,J=8.7Hz,2H) IR(KBr)1611,1518,1480,1365,1177,1151,1080,876,816cm^{-1}
I-305	foam ^{1}HNMR($CDCl_3$) δ 1.25(d,J=6.9Hz,6H),2.67(s,3H),2.93(q,J=6.9Hz,1H)3.13(s,3H),3.21(s,3H),3.56(s,3H),3.78(s,3H),5.15(s,2H),6.84(s,1H),7.16(d,J=8.7Hz,1H),7.26(d,J=8.4Hz,2H),7.34(dd,J=2.4,8.7Hz,1H),7.38(d,J=8.4Hz,4H),7.40(d,J=2.4Hz,1H),7.68(d,J=8.4Hz,2H) IR(KBr)1609,1519,1481,1365,1177,1151,1080,875,819cm^{-1}

Table 64

I-306	foam ^{1}HNMR($CDCl_3$) δ 2.62(s,3H),3.15(s,3H),3.21(s,3H),3.55(s,3H),3.77(s,3H),5.36(s,2H),6.84(s,1H),7.18(d,J=8.7Hz,1H),7.26(s,1H),7.33(dd,J=2.1,8.4Hz,1H),7.38(d,J=8.7Hz,2H),7.41(d,J=2.1Hz,1H),7.51(m,2H),7.57(dd,J=1.8,8.4Hz,1H),7.68(d,J=8.7Hz,2H),7.84-7.93(m,4H) IR(KBr)1608,1519,1480,1364,1177,1151,1079,876,819,797cm^{-1}
I-307	foam ^{1}HNMR($CDCl_3$) δ 2.64(s,3H),3.21(s,3H),3.28(s,3H),3.55(s,3H),3.77(s,3H),5.51(s,2H),6.83(s,1H),7.18(d,J=8.4Hz,1H),7.31(dd,J=2.4,8.4Hz,1H),7.37(d,J=8.7Hz,2H),7.42(d,J=2.4Hz,1H),7.58(dt,J=2.4,7.2Hz,1H),7.67(d,J=8.7Hz,2H),7.74(d,J=8.4Hz,1H),7.76(dt,J=2.4,7.2Hz,1H),7.85(d,J=7.2Hz,1H),8.06(d,J=7.2Hz,1H),8.23(d,J=7.2Hz,1H) IR(KBr)1603,1519,1480,1365,1177,1151,1080,876,824,797cm^{-1}
I-308	foam ^{1}HNMR($CDCl_3$) δ 2.76(s,3H),3.17(s,3H),3.21(s,3H),3.55(s,3H),3.78(s,3H),5.25(s,2H),6.85(s,1H),7.12(d,J=8.7Hz,1H),7.35(dd,J=2.1,8.4Hz,1H),7.38(d,J=8.7Hz,2H),7.42(d,J=2.1Hz,1H),7.61(d,J=8.7Hz,2H),7.67(d,J=8.4Hz,2H),7.68(d,J=8.7Hz,2H) IR(KBr)1610,1522,1489,1402,1245,1181,1164,1110,1071,821,805cm^{-1}
I-309	m.p.221-222℃ ^{1}HNMR($CDCl_3$) δ 2.36(s,3H),2.38(s,3H),3.46(s,3H),3.75(s,3H),5.09(s,2H),6.45(s,1H),6.92(d,J=8.4Hz,2H),6.98(dd,J=2.1,8.1Hz,1H),7.06(d,J=8.4Hz,1H),7.08(d,J=2.1Hz,1H),7.08(s,1H),7.28(d,J=8.4Hz,1H),7.53(d,J=8.4Hz,2H) IR(KBr)3475,1610,1522,1489,1402,1245,1181,1164,1110,1071,821,805cm^{-1}
I-310	m.p.153-155℃ ^{1}HNMR($CDCl_3$) δ 1.27(d,J=6.9Hz,6H),2.95(q,J=6.9Hz,1H),3.45(s,3H),3.74(s,3H),5.11(s,2H),6.45(s,1H),6.91(d,J=8.4Hz,2H),6.96(dd,J=2.1,8.1Hz,1H),7.03(d,J=8.1Hz,1H),7.08(d,J=2.1Hz,1H),7.28(d,J=8.1Hz,2H),7.38(d,J=8.1Hz,2H),7.53(d,J=8.4Hz,2H) IR(KBr)3486,1611,1522,1489,1265,1113,1072,1011,823cm^{-1}

Table 65

I-311	m.p.176-177℃ ^{1}HNMR($CDCl_3$) δ 3.45(s,3H),3.75(s,3H),5.32(s,2H),6.45(s,1H),6.91(d,J=8.4Hz,2H),6.97(dd,J=2.1,8.4Hz,1H),7.06(d,J=8.4Hz,1H),7.10(d,J=2.1Hz,1H),7.53(d,J=8.4Hz,2H),7.50-7.57(m,3H),7.82-7.92(m,4H) IR(KBr)3476,1610,1522,1488,1469,1401,1263,1246,1173,1112,1073,1014,1002,819,806cm^{-1}
I-312	m.p.235-237℃ ^{1}HNMR($CDCl_3$) δ 3.44(s,3H),3.73(s,3H),5.49(s,2H),6.44(s,1H),6.92(d,J=8.4Hz,2H),6.93(dd,J=2.1,8.4Hz,1H),7.14(d,J=2.1Hz,1H),7.18(d,J=8.4Hz,1H),7.38(d,J=8.4Hz,1H),7.52(d,J=8.4Hz,2H),7.58(dd,J=7.2,7.2Hz,1H),7.77(dd,J=7.2,7.2Hz,1H),7.85(d,J=7.2Hz,1H),8.21(d,J=7.2Hz,1H),8.22(d,J=7.2Hz,1H) IR(KBr)3378,1609,1522,1488,1268,1229,1205,1114,1072,1016,825,782cm^{-1}
I-313	m.p.159-161℃ ^{1}HNMR($CDCl_3$) δ 3.45(s,3H),3.75(s,3H),5.22(s,2H),6.45(s,1H),6.92(d,J=8.4Hz,2H),6.96(br.s,2H),7.11(br.s,1H),7.53(d,J=8.4Hz,2H),7.57(d,J=8.4Hz,2H),7.68(d,J=8.4Hz,2H), IR(KBr)3433,1613,1523,1490,1326,1251,1166,1113,1066,1014,825,cm^{-1}
I-314	m.p.92-93℃ ^{1}HNMR($CDCl_3$) δ 1.63(s,3H),1.74(s,3H),2.34-2.39(m,1H),2.67-2.72(m,2H),3.47(s,3H),3.74(s,3H),4.52-4.54(m,2H),5.30-5.33(m,2H),6.78-6.97(m,4H),7.20(d,J=7.2Hz,1H),7.56(d,J=8.0Hz,2H) IR(KBr)3410,2932,1613,1519,1473,1444,1390,1263,1228,1174cm^{-1}
I-315	m.p.85-86℃ ^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.83(s,3H),2.17-2.40(m,1H),2.65-2.71(m,2H),3.24(s,3H),3.46(s,3H),3.80(s,3H),4.50-4.52(m,2H),6.70(s,1H),7.28-7.43(m,5H),7.73(d,J=8.6Hz,2H) IR(KBr)3432,2938,1731,1513,1469,1366,1180,1151,970,868cm^{-1}

Table 66

I-316	m.p.179-180℃ ^{1}HNMR($CDCl_3$) δ 1.72(s,3H),1.76(s,3H),2.15-2.35(m,1H),2.61-2.70(m,2H),3.46(s,3H),3.76(s,3H),4.47-4.50(m,2H),6.68(s,1H),7.17-7.52(m,5H),7.69(d,J=8.4Hz,2H) IR(KBr)3427,2934,1612,1576,1519,1465,1443,1415,1376,1228,1174,846cm^{-1}
I-317	m.p.141-142℃ ^{1}HNMR($CDCl_3$) δ 1.75(s,3H),1.80(s,3H),3.21(s,3H),3.39(s,3H),3.68(s,3H),3.77(s,3H),4.61(d,J=7.2Hz,2H),5.50(t,J=7.0Hz,1H),6.93(s,1H),6.99-7.33(m,5H),7.57-7.65(m,2H) IR(KBr)3432,2938,1724,1519,1474,1365,1346,1294,1262,1244,1220,1163,1119,1059,953,842,805cm^{-1}
I-318	m.p.127-128℃ ^{1}HNMR($CDCl_3$) δ 1.68(s,3H),1.74(s,3H),2.54(dt,J=4.2,4.6Hz,2H),3.20(s,3H),3.39(s,3H),3.68(s,3H),3.76(s,3H),4.05(t,J=4.4Hz,2H),5.21(t,J=4.6Hz,1H),6.93(s,1H),7.00(d,J=5.6Hz,1H),7.11-7.18(m,2H),7.25-7.35(m,3H),7.61(dd,J=3.8,5.8Hz) IR(KBr)3447,2974,2940,1740,1519,1471,1365,1343,1295,1262,1226,1182,1161,1119,1058,952,843,814cm^{-1}
I-319	m.p.171-172℃ ^{1}HNMR($CDCl_3$) δ 2.38(s,3H),3.10(s,3H),3.39(s,3H),3.66(s,3H),3.77(s,3H),5.11(s,2H),6.93(s,1H),7.07-7.36(m,9H),7.61(dd,J=3.4,5.6Hz,2H) IR(KBr)3431,2937,1724,1519,1474,1440,1346,1296,1259,1243,1222,1165,1121,1060,953,843,804cm^{-1}
I-320	m.p.155-156℃ ^{1}HNMR($CDCl_3$) δ 3.40(s,3H),3.69(s,3H),3.77(s,3H),5.13(s,2H),5.70(brs,1H),6.82-7.42(m,5H),7.39-7.42(m,5H),7.62(dd,J=5.4,8.6Hz) IR(KBr)3550,3481,2956,1723,1519,1467,1435,1344,1285,1261,1238,1223,1130,1058,1013,840cm^{-1}

Table 67

I-321	m.p.159-160℃ ^{1}HNMR(CDCl$_3$) δ 3.11(s,3H),3.40(s,3H),3.66(s,3H),3.77(s,3H),5.16(s,2H),6.93(s,1H),7.07-7.49(m,5H),7.62(dd,J=3.0,8.4Hz,2H) IR(KBr)3441,2952,1732,1519,1469,1445,1381,1356,1342,1291,1273,1243,1226,1162,1119,1081,1057,999,950,842,805cm^{-1}
I-322	m.p.160-161℃ ^{1}HNMR(CDCl$_3$) δ 2.37(s,3H),2.93(s,3H),3.19(s,3H),3.22(s,3H),3.55(s,3H),3.79(s,3H),5.23(s,2H),6.86(s,1H),7.20(d,J=8.1Hz,2H),7.30(d,J=8.1Hz,2H),7.36-7.41(m,2H),7.64-7.70(m,2H),7.74(d,J=2.1Hz,1H),7.83(d,J=2.1Hz,1H),10.16(s,1H) IR(CHCl$_3$)3027,2940,1692,1473,1373,1227,1152,1085cm^{-1}
I-323	powder ^{1}HNMR(CDCl$_3$) δ 2.37(s,3H),2.86(s,3H),3.13(s,3H),3.21(s,3H),3.54(s,3H),3.79(s,3H),4.64(s,2H),5.11(s,2H),6.85(s,1H),7.21(d,J=7.8Hz,2H),7.32-7.44(m,6H),7.65-7.70(m,2H) IR(CHCl$_3$)3026,2939,1475,1372,1228,1178,1151,1084cm^{-1}
I-324	powder ^{1}HNMR(CDCl$_3$) δ 1.89-1.98(brs,1H),2.39(s,3H),3.45(s,3H),3.75(s,3H),4.77(s,2H),5.01(s,3H),5.46(s,1H),5.99(s,1H),6.45(s,1H),6.45-6.95(m,2H),7.05(s,2H),7.24(d,J=8.1Hz,2H),7.38(d,J=8.1Hz,2H),7.50-7.56(m,2H) IR(CHCl$_3$)3514,2937,1731,1613,1522,1484,1403,1228,1173,1082cm^{-1}
I-325	powder ^{1}HNMR(CDCl$_3$) δ 2.31(s,3H),2.88(s,3H),3.07(s,3H),3.22(s,3H),3.51(s,3H),3.74(s,3H),5.23(s,2H),6.83(s,1H),7.11-7.18(m,2H),7.32-7.41(m,4H),7.62-7.68(m,3H),8.03(s,1H) IR(CHCl$_3$)3026,2939,1742,1472,1374,1227,1179,1129,1085cm^{-1}

Table 68

I-326	powder ^{1}HNMR(CD_3OD) δ 2.33(s,3H),3.38(s,3H),3.68(s,3H),5.11(s,2H),6.44(s,1H),6.82-6.88(m,2H),6.99(d,J=1.8Hz,1H),7.13-7.19(m,3H),7.42-7.50(m,4H) IR(KBr)3411,2935,1680,1611,1520,1457,1404,1281,1230,1114cm^{-1}
I-327	powder ^{1}HNMR($CDCl_3$) δ 1.72(s,3H),1.79(s,3H),3.12(s,3H),3.21(s,3H),3.27(s,3H),3.52(s,3H),3.53(s,3H),4.81(d,J=7.5Hz,2H),5.51(m,1H),7.38-7.43(m,2H),7.45-7.50(m,2H),7.80(d,J=2.1Hz,1H),7.97(d,J=2.1Hz,1H) IR($CHCl_3$)3032,2941,1543,1377,1209cm^{-1}
I-328	m.p.205-206℃ ^{1}HNMR($CDCl_3$) δ 1.75(s,3H),1.80(s,3H),3.41(s,3H),3.47(s,3H),4.66(d,J=6.6Hz,2H),5.06(s,1H),5.53(m,1H),6.33(s,1H),6.89-6.95(m,2H),7.28-7.34(m,2H),7.38-7.40(m,1H),7.99(d,J=2.1Hz,1H),10.83(d,J=0.6Hz,1H) IR(KBr)3476,2940,1614,1532,1371,1238,1094,1035cm^{-1}
I-329	m.p.144-145℃ ^{1}HNMR($CDCl_3$) δ 2.83(s,3H)3.22(s,3H),3.28(s,3H),3.55(s,3H),3.79(s,3H),6.86(s,1H),7.37-7.45(m,3H),7.47-7.53(m,3H),7.65-7.70(m,2H) IR(KBr)3434,3019,2939,1515,1480,1370,1176,1150,1081cm^{-1}
I-330	amorphous ^{1}HNMR($CDCl_3$) δ 1.68(s,3H),1.74(s,3H),2.54(q,J=7.2Hz,2H),3.21(s,3H),3.41(s,3H),3.65(s,3H),3.77(s,3H),4.03(t,J=7.2Hz,2H),5.23(t,J=7.2Hz,1H),6.94(s,1H),6.98(t,J=8.6Hz,1H),7.05(ddd,J=8.6,2.1,0.9Hz,1H),7.14(dd,J=12.0,2.1Hz,1H),7.38(d,J=8.7Hz,2H),7.71(d,J=8.7Hz,2H) IR($CHCl_3$)1732,1521,1471,1375,1262,1230,1150,1061,874cm^{-1}

Table 69

I-331	m.p.146-148℃ ^{1}HNMR($CDCl_3$) δ 1.56(s,3H),1.80(s,3H),3.21(s,3H),3.41(s,3H),3.65(s,3H),3.77(s,3H),4.61(d,J=6.9Hz,2H),5.54(t,J=6.9Hz,1H),6.94(s,1H),6.98(t,J=8.4Hz,1H),7.05(ddd,J=8.4,2.4,0.9Hz,1H),7.14(dd,J=12.0,2.4Hz,1H),7.38(d,J=8.7Hz,2H),7.71(d,J=8.7Hz,2H) IR(KBr)1736,1519,1471,1357,1257,1150,1061,984,872cm^{-1}
I-332	m.p.170-171℃ ^{1}HNMR(DMSO-d_6) δ 1.73(s,3H),1.77(s,3H),3.31(s,3H),3.73(s,3H),4.62(d,J=7.0Hz,2H),5.48(t,J=7.0Hz,1H),6.87(d,J=8.9Hz,2H),7.00(s,1H),7.03(ddd,J=8.7,2.3,0.9Hz,1H),7.10(dd,J=12.3,2.3Hz,1H),7.18(t,J=8.7Hz,1H),7.48(d,J=8.9Hz,2H),9.60(s,1H),12.9(brs,1H) IR(KBr)3258,1687,1615,1523,1465,1373,1260,1233,1057,994,835,823cm^{-1}
I-333	m.p.172-174℃ ^{1}HNMR($CDCl_3$) δ 3.21(s,3H),3.41(s,3H),3.61(s,3H),3.77(s,3H),5.17(s,2H),6.94(s,1H),7.01-7.04(m,2H),7.13-7.18(m,1H),7.33-7.49(m,7H),7.70(d,J=9.0Hz,2H) IR(KBr)1725,1522,1463,1346,1261,1230,1147,1058,878,756cm^{-1}
I-334	m.p.149-151℃ ^{1}HNMR($CDCl_3$) δ 2.36(s,3H),3.21(s,3H),3.41(s,3H),3.61(s,3H),3.77(s,3H),5.13(s,2H),6.93(s,1H),7.00-7.03(m,2H),7.12-7.17(m,1H),7.20(d,J=8.4Hz,2H),7.35(d,J=8.4Hz,2H),7.38(d,J=8.7Hz,2H),7.70(d,J=8.7Hz,2H) IR(KBr)1731,1519,1472,1370,1298,1152,1058,874,791cm^{-1}

Table 70

I-335	m.p.173-174℃ ^{1}HNMR(DMSO-d_6) δ 1.64(s,3H),1.70(s,3H),2.45(q,J=6.9Hz,2H),3.31(s,3H),3.73(s,3H),4.04(t,J=6.9Hz,2H),5.22(t,J=6.9Hz,1H),6.87(d,J=8.7Hz,2H),6.99(s,1H),7.03(ddd,J=8.7,2.1,0.9Hz,1H),7.10(dd,J=12.3,2.1Hz,1H),7.16(t,J=8.7Hz,1H),7.48(d,J=8.7Hz,2H),9.61(s,1H),12.9(brs,1H) IR(KBr)3303,1696,1523,1473,1371,1261,1241,1061,1009,839cm^{-1}
I-336	m.p.222-224℃ ^{1}HNMR(DMSO-d_6) δ 3.31(s,3H),3.73(s,3H),5.20(s,2H),6.87(d,J=8.7Hz,2H),7.00(s,1H),7.03-7.07(m,1H),7.13(dd,J=12.3,2.1Hz,1H),7.26(t,J=8.7Hz,1H),7.36-7.52(m,7H),9.61(s,1H),12.9(brs,1H) IR(KBr)3268,1689,1523,1465,1374,1261,1055,836cm^{-1}
I-337	m.p.205-206℃ ^{1}HNMR(DMSO-d_6) δ 2.32(s,3H),3.31(s,3H),3.72(s,3H),5.15(s,2H),6.87(d,J=8.7Hz,2H),6.99(s,1H),7.04(ddd,J=9.0,1.9,0.9Hz,1H),7.12(dd,J=12.3,1.9Hz,1H),7.23(d,J=8.0Hz,2H),7.24(t,J=9.0Hz,1H),7.38(d,J=8.0Hz,2H),7.48(d,J=8.7Hz,2H),9.60(s,1H),12.9(brs,1H) IR(KBr)3303,1696,1523,1464,1261,1241,1056,993,838,811,791cm^{-1}
I-338	m.p.120-121℃ ^{1}HNMR($CDCl_3$) δ 3.13(s,3H),3.50(s,3H),3.78(s,3H),5.08(s,1H),5.20(s,2H),6.90(m,2H),7.09(s,1H),7.15-7.19(m,3H),7.37-7.50(m,5H),7.56(dd,J=10.8,2.1Hz,1H),7.64(d,J=2.4Hz,1H),9.90(s,1H) IR(KBr)3460,2934,1694,1609,1585,1518,1467,1442,1348,1295,1273,1255,1238,1171,1123,1075,1003,960,828,807,755,700,653,582,522cm^{-1}
I-339	m.p.256-258℃ ^{1}HNMR(DMSO-d_6) δ 3.34(s,3H),3.35(s,3H),3.72(s,3H),5.28(s,2H),6.75(d,J=8.1Hz,2H),7.05-7.11(m,3H),7.36-7.45(m,4H),7.53(d,J=8.1Hz,2H),7.60-7.66(m,2H),9.44(s,1H),12.84(s,1H) IR(KBr)3459,2940,2563,1706,1612,1522,1469,1349,1294,1258,1185,1114,1082,1063,1000,961,919,827,756,699,524cm^{-1}

Table 71

I-340	m.p.165-166℃ ^{1}HNMR($CDCl_3$) δ 3.14(s,3H),3.19(s,3H),3.51(s,3H),3.76(s,3H),5.21(s,2H),7.11(s,1H),7.17(d,J=8.4Hz,1H),7.29-7.50(m,9H),7.57(dd,J=8.1,2.1Hz,1H),7.65(d,J=2.1Hz,1H),10.02(s,1H) IR($CHCl_3$)2938,2844,1698,1613,1590,1515,1469,1372,1331,1293,1255,1174,1150,1122,1092,1005,969,873,816cm^{-1}
I-341	m.p.195-197℃ ^{1}HNMR($CDCl_3$) δ 3.13(s,3H),3.18(s,3H),3.47(s,3H),3.77(s,3H),5.20(s,2H),6.97(s,1H),7.17(d,J=8.7Hz,1H),7.30-7.50(m,9H),7.58(dd,J=8.7,1.8Hz,1H),7.67(d,J=1.8Hz,1H) IR($CHCl_3$)2938,1740,1707,1601,1516,1472,1371,1293,1260,1174,1149,1117,1082,1060,1002,971,875cm^{-1}
I-342	m.p.207-209℃ ^{1}HNMR(CD_3OD) δ 3.40(s,3H),3.72(s,3H),5.21(s,2H),6.76-6.78(m,2H),6.97(s,1H),7.01-7.17(m,4H),7.31-7.52(m,6H) IR(KBr)3366,1705,1612,1591,1522,1473,1434,1375,1253,1234,1130,1084,1061,998,918,864,835,813,792,743,697,648,526cm^{-1}
I-343	m.p.206-208℃ ^{1}HNMR($CDCl_3$) δ 3.14(s,3H),3.48(s,3H),3.72(s,3H),5.20(s,2H),5.48(br,1H),6.85-6.89(m,3H),7.15-7.19(m,3H),7.37-7.51(m,8H),7.56(dd,J=8.4,2.4Hz,1H),7.68(d,J=2.4Hz,1H) IR($CHCl_3$)3320,2938,1612,1520,1474,1371,1292,1257,1172,1120,1090,1005,972,857,837,818cm^{-1}
I-344	m.p.187-190℃ ^{1}HNMR($CDCl_3$) δ 2.33(s,3H),3.13(s,3H),3.50(s,3H),3.76(s,3H),5.20(s,2H),7.10(s,1H),7.15-7.19(m,3H),7.28-7.50(m,7H),7.56(dd,J=8.7,2.4Hz,1H),7.64(d,J=2.4Hz,1H),9.93(s,1H) IR($CHCl_3$)2930,2836,1750,1695,1588,1513,1465,1369,1329,1220,1166,1122,1091,1003,962,912,848,813cm^{-1}

Table 72

I-345	m.p.218-220℃ ^{1}HNMR(DMSO-d$_6$) δ 2.29(s,3H),3.36(s,3H),3.37(s,3H),3.76(s,3H),5.29(s,2H),7.11-7.16(m,3H),7.31-7.46(m,6H),7.52-7.55(m,2H),7.62-7.68(m,2H),13.00(br,1H) IR(KBr)3433,2940,2600,1757,1713,1652,1611,1518,1471,1365,1295,1260,1216,1200,1171,1117,1082,1061,1022,998,975,916,897,829,804,735,697,525cm^{-1}
I-346	m.p.206-208℃ ^{1}HNMR(CDCl$_3$) δ 2.31(s,3H),3.13(s,3H),3.45(s,3H),3.58(s,3H),3.76(s,3H),5.19(s,2H),6.95(s,1H),7.08-7.16(m,3H),7.34-7.50(m,7H),7.57(dd,J=8.7,2.4Hz,1H),7.67(d,J=2.4Hz,1H) IR(CHCl$_3$)2939,1732,1613,1599,1518,1468,1371,1290,1169,1117,1081,1064,1004,972,961,905,847,828cm^{-1}
I-347	m.p.201-203℃ ^{1}HNMR(DMSO-d$_6$) δ 1.72(s,3H),1.76(s,3H),3.34(s,3H),3.63(s,3H),4.51(d,J=4.2Hz,2H),5.49(t,J=4.6Hz,1H),6.66(s,1H),6.76(s,2H),6.86(s,1H),7.23-7.29(m,2H),7.62-7.66(m,2H) IR(KBr)3431,2935,1575,1516,1462,1444,1421,1397,1375,1224,1159,1063,837cm^{-1}
I-348	m.p.265-266℃ ^{1}HNMR(DMSO-d$_6$) δ 2.31(s,3H),3.33(s,3H),3.62(s,3H),5.03(s,2H),6.66(s,1H),6.72-6.90(m,4H),7.18-7.28(m,3H),7.38(d,J=5.2Hz,2H),7.64(dd,J=4.0,5.4Hz,2H) IR(KBr)3428,2925,1575,1516,1463,1442,1396,1374,1248,1221,1129,1087,1068cm^{-1}
I-349	m.p.262-263℃ ^{1}HNMR(DMSO-d$_6$) δ 1.64(s,3H),1.70(s,3H),2.43(dt,J=4.6,5.0Hz,2H),3.34(s,3H),3.62(s,3H),3.91(t,J=4.8Hz,2H),5.25(t,J=4.6Hz,1H),6.70(s,1H),6.75(s,2H),6.87(s,1H),7.23-7.29(m,2H),7.64(dd,J=2.0,5.8Hz,2H) IR(KBr)3430,2934,1575,1516,1464,1443,1422,1398,1375,14246,1225,1065,1015cm^{-1}

Table 73

I-350	^{1}HNMR(CDCl$_3$) δ 1.76(s,3H),1.81(d,J=0.6Hz,3H),2.54(s,3H),2.73(s,3H),3.23(s,3H),3.54(s,3H),3.77(s,3H),4.63(d,J=6.6Hz,2H),5.49(m,1H),6.85(s,1H),7.09(d,J=8.4Hz,1H),7.30-7.40(m,4H),7.53-7.59(m,2H) IR(CHCl$_3$)2936,1606,1515,1475,1366,1116,1078,970,875,820cm^{-1}
I-351	^{1}HNMR(CDCl$_3$) δ 1.68(s,3H),1.74(d,J=0.9Hz,3H),2.48-2.60(m,5H),2.75(s,3H),3.21(s,3H),3.54(s,3H),3.77(s,3H),4.07(t,J=6.9Hz,2H),5.21(m,1H),6.85(s,1H),7.07(d,J=8.7Hz,1H),7.30-7.42(m,4H),7.53-7.59(m,2H) IR(CHCl$_3$)2928,1607,1517,1476,1367,1267,1118,1080,1014,971,892,822cm^{-1}
I-352	m.p.201-203℃ ^{1}HNMR(CDCl$_3$) δ 3.35(s,3H),3.75(s,3H),3.76(s,3H),5.26(s,2H),6.79-6.83(m,2H),6.97(s,1H),7.01(s,1H),7.31-7.54(m,10H),9.45(s,1H) IR(KBr)3600-2800(br),1610,1525,1492,1462,1377,1337,1298,1208,1171,1114,1054,1031cm^{-1}
I-353	m.p.141-143℃ ^{1}HNMR(CDCl$_3$) δ 3.56(s,3H),3.78(s,3H),3.80(s,3H),4.86(s,1H),5.26(s,2H),6.88-6.92(m,2H),6.92(s,1H),6.93(s,1H),7.24-7.29(m,2H),7.36-7.41(m,1H),7.45-7.50(m,2H) IR(KBr)3600-2800(br),1612,1524,1491,1463,1448,1378,1263,1205,1177,1153,1071,1053,1026cm^{-1}
I-354	m.p.115-115.5℃ ^{1}HNMR(CDCl$_3$) δ 3.19(s,3H),3.56(s,3H),3.79(s,3H),3.80(s,3H),5.27(s,2H),6.93(s,1H),6.94(s,1H),7.25-7.27(m,2H),7.32-7.40(m,3H),7.60-7.64(m,2H) IR(KBr)3600-2800(br),1524,1492,1463,1379,1266,1210,1174,1154,1126,1082,1053,1029cm^{-1}
I-355	m.p.139-140℃ ^{1}HNMR(CDCl$_3$) δ 1.77(d,J=0.6Hz,3H),1.81(d,J=0.9Hz,3H),3.82(s,6H),4.64(d,J=6.9Hz,2H),5.52-5.57(m,1H),6.95(s,1H),6.97(s,1H),7.04(t,J=8.4Hz,1H),7.26-7.31(m,1H),7.37(dd,J=2.1,12.6Hz,1H),7.73-7.77(m,2H),8.26-8.31(m,2H) IR(KBr)3600-2800(br),1593,1524,1508,1486,1464,1380,1355,1278,1264,1211,1054,1029cm^{-1}

Table 74

I-356	foam ^{1}HNMR($CDCl_3$) δ 2.68(s,3H),3.13(s,3H),3.53(s,3H),3.78(s,3H),5.19(s,2H),6.83(s,1H),7.10-7.19(m,3H),7.30-7.50(m,7H),7.56-7.64(m,2H) IR(KBr)1607,1520,1482,1365,1232,1177,1119,1082,1013cm^{-1}
I-357	^{1}HNMR($CDCl_3$) δ 2.39(s,3H),3.48(s,3H),3.75(s,3H),5.11(s,2H),5.67(s,1H),5.88(s,1H),6.46(s,1H),6.95(d.d,J=8.7&1.8Hz,1H),7.02-7.11(m,1H),7.03(d,J=8.7Hz,1H),7.07(d,J=1.8Hz,1H),7.22(d,J=8.7Hz,2H),7.34(d,J=8.7Hz,2H),7.36-7.47(m,3H)IR(KBr)3546,3511,1611,1586,1517,1478,1405,1360,1318,1240,1109,1068,1007cm^{-1}
I-358	^{1}HNMR($CDCl_3$) δ 3.03(s,6H),3.48(s,3H),3.77(s,3H),5.15(s,2H),5.71(s,1H),6.73(dd,J=8.7&1.8Hz,1H),6.82(d,J=8.4Hz,2H),6.97(d,J=1.8Hz,1H),6.98(dJ=8.7Hz,1H),7.11(s,1H),7.33-7.48(m,5H),7.56(d,J=8.7Hz,2H),9.92(s,1H) IR(KBr)3524,3447,1697,1612,1586,1525,1468,1364,1283,1257,1230,1201,1127,1103,1073,1020cm^{-1}
I-359	^{1}HNMR($CDCl_3$) δ 3.04(s,6H),3.14(s,3H),3.48(s,3H),3.76(s,3H),5.17(s,2H),6.84(d,J=8.7Hz,2H),7.06-7.17(m,3H),7.34(d,J=1.8Hz,1H),7.35-7.50(m,6H),7.55(d,J=8.7Hz,2H),10.08(s,1H) IR(KBr)1698,1610,1527,1470,1357,1290,1232,1183,1115,1083,1018cm^{-1}
I-360	^{1}HNMR($CDCl_3$) δ 2.56(s,3H),3.02(s,6H),3.54(s,3H),3.76(s,3H),5.16(s,2H),5.67(s,1H),6.80(d,J=8.4Hz,2H),6.85(s,1H),6.91(d.d,J=8.4&2.1Hz,1H),7.01(d,J=8.4Hz,1H),7.05(d,J=2.1Hz,1H),7.30-7.47(m,5H),7.55(d,J=8.7Hz,2H) IR(KBr)3542,3436,1605,1530,1483,1391,1360,1287,1253,1234,1169,1074,1016cm^{-1}
I-361	^{1}HNMR($CDCl_3$) δ 1.31(d,J=6.9Hz,6H),2.57(s,3H),2.97(quint,J=6.9Hz,1H),3.54(s,3H),3.76(s,3H),5.17(s,2H),5.68(s,1H),6.86(s,1H),6.92(dd,J=8.4&2.1Hz,1H),7.02(d,J=8.4Hz,1H),7.05(d,J=2.1Hz,1H),7.31(d,J=8.1Hz,2H),7.34-7.46(m,5H),7.55(d,J=8.1Hz,2H) IR(KBr)3446,1606,1585,1522,1484,1457,1394,1356,1289,1257,1228,1172,1076,1018,1007cm^{-1}

Table 75

I-362	¹HNMR(CDCl₃) δ 1.31(d,J=6.9Hz,6H),2.98(quint,J=6.9Hz,1H),3.46(s,3H),3.74(s,3H),5.15(s,2H),5.67(s,1H),5.92(s,1H),6.48(s,1H),6.97(dd,J=8.4&1.8Hz,1H),7.03(d,J=8.4Hz,1H),7.10(d,J=1.8Hz,1H),7.25(s,1H),7.31(d,J=7.8Hz,2H),7.34-7.49(m,5H),7.57(d,J=7.8Hz,2H) IR(KBr)3538,3505,3465,1610,1586,1552,1518,1584,1458,1398,1281,1288,1245,1198,1112,1071,1002cm⁻¹
I-363	¹HNMR(CDCl₃) δ 2.66(s,3H),3.06(s,3H),3.13(s,3H),3.57(s,3H),3.67(s,3H),3.78(s,3H),5.19(s,2H),6.44(s,1H),6.85(s,1H),7.15(d,J=8.7Hz,1H),7.28-7.51(m,10H) IR(KBr)3443,1604,1518,1479,1364,1237,1177,1153,1118,1078,1014cm⁻¹
I-364	¹HNMR(CDCl₃) δ 1.77(s,3H),1.81(s,3H),2.70(s,3H),3.06(s,3H),3.24(s,3H),3.58(s,3H),3.78(s,3H),4.64(d,J=6.6Hz,2H),5.49(t,J=6.6Hz,1H),6.42(s,1H),6.85(s,1H),7.09(d,J=8.4Hz,1H),7.28-7.49(m,5H) IR(KBr)3432,3285,1604,1518,1479,1364,1328,1291,1269,1237,1177,1154,1117,1078cm⁻¹
I-365	¹HNMR(CDCl₃) δ 1.57(s,3H),1.67(s,3H),1.77(s,3H),1.81(s,3H),2.70(s,3H),2.96(s,3H),3.24(s,3H),3.53(s,3H),3.78(s,3H),4.32(d,J=7.2Hz,2H),4.64(d,J=6.9Hz,2H),5.25(t,J=6.9Hz,1H),5.49(t,J=7.2Hz,1H),6.85(s,1H),7.09(d,J=8.7Hz,1H),7.31-7.41(m,3H),7.44-7.64(m,3H) IR(KBr)3433,1600,1517,1474,1365,1339,1237,1178,1153,1118,1078,1014cm⁻¹
I-366	¹HNMR(CDCl₃) δ 1.76(s,3H),1.82(s,3H),3.08(s,3H),348(s,3H),3.75(s,3H),4.62(d,J=7.2Hz,2H),5.54(t,J=7.2Hz,1H),5.70(s,1H),5.85(s,1H),6.40(s,1H),6.46(s,1H),6.89-7.00(m,2H),7.05(d,J=1.5Hz,1H),7.43-7.51(m,3H) IR(KBr)3437,1605,1585,1518,1482,1386,1323,1243,1152,1114,1071,1002cm⁻¹
I-367	¹HNMR(CDCl₃) δ 2.37(s,3H),3.21(s,3H),3.47(s,3H),3.64(s,3H),3.77(s,3H),3.84(s,3H),5.17(s,2H),6.63(s,1H),6.78(s,1H),7.10(s,1H),7.20(d,J=8.1Hz,2H),7.40(d,J=8.1Hz,2H),7.41(d,J=9.3Hz,2H),7.70(d,J=9.3Hz,2H) IR(KBr)1702,1607,1589,1518,1468,1356,1216,1151,1067,1039,1018cm⁻¹

Table 76

I-368	^{1}HNMR($CDCl_3$) δ 2.37(s,3H),3.21(s,3H),3.48(s,6H),3.65(s,3H),3.73(s,3H),3.83(s,3H),4.32(d,J=11.4Hz,1H),4.51(d,J=11.4Hz,1H),5.17(s,2H),6.93(s,1H),6.71(s,1H),6.88(s,1H),7.21(d,J=8.4Hz,2H),7.32-7.41(m,4H),7.73(d,J=8.4Hz,2H) IR(KBr)3514,1608,1516,1465,1355,1215,1149,1076,1039,1017cm^{-1}
I-369	m.p.125-127℃ ^{1}HNMR($CDCl_3$) δ 2.60(s,3H),3.52(s,3H),3.73(s,3H),3.84(s,3H),5.20(s,2H),6.83(s,1H),7.00-7.48(m,12H) IR(KBr)3434,2943,1611,1580,1520,1498,1480,1398,1297,1268,1245,1179,1129,1079,1009cm^{-1}
I-370	m.p.137-139℃ ^{1}HNMR($CDCl_3$) δ 3.43(s,3H),3.71(s,3H),3.85(s,3H),5.19(s,2H),5.92(s,1H),6.43(s,1H),7.01-7.51(m,12H) IR(KBr)3391,2937,1615,1583,1520,1503,1482,1464,1405,1359,1314,1292,1273,1239,1121,1108,1069,1005cm^{-1}
I-371	m.p.92-94℃ ^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.81(s,3H),2.70(s,3H),3.53(s,3H),3.73(s,3H),3.84(s,3H),4.63(d,J=6.9Hz,2H),5.53(m,1H),6.84(s,1H),7.00-7.45(m,7H) IR(KBr)3433,2938,1609,1581,1523,1499,1480,1401,1368,1297,1268,1240,1178,1118,1079,1021cm^{-1}
I-372	foam ^{1}HNMR($CDCl_3$) δ 1.68(s,3H),1.74(d,J=0.6Hz,3H),2.50-2.59(m,2H),2.71(s,3H),3.53(s,3H),3.73(s,3H),3.84(s,3H),4.04(t,J=7.2Hz,2H),5.23(m,1H),6.83(s,1H),7.00-7.42(m,7H) IR($CHCl_3$)3011,2938,1612,1581,1522,1500,1480,1465,1398,1370,1301,1268,1238,1209,1176,1119,1081,1017cm^{-1}
I-373	m.p.95-98℃ ^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.80(s,3H),3.43(s,3H),3.72(s,3H),3.85(s,3H),4.63(d,J=6.6Hz,2H),5.56(m,1H),5.92(s,1H),6.43(s,1H),7.01-7.42(m,7H) IR(KBr)3318,2937,1612,1598,1500,1485,1464,1450,1361,1298,1275,1240,1104,1072,1011cm^{-1}

Table 77

I-374	m.p.69-71℃ ^{1}HNMR(CDCl$_3$) δ 1.68(s,3H),1.74(d,J=0.6Hz,3H),2.50-2.60(m,2H),3.43(s,3H),3.71(s,3H),3.85(s,3H),4.04(t,J=7.2Hz,2H),5.23(m,1H),5.91(s,1H),6.43(s,1H),7.00-7.42(m,7H) IR(KBr)3385,2933,1611,1583,1521,1503,1485,1466,1403,1358,1299,1276,1241,1122,1104,1071,1011cm^{-1}
I-375	m.p.105-107℃ ^{1}HNMR(CDCl$_3$) δ 2.36(s,3H),2.59(s,3H),3.52(s,3H),3.73(s,3H),3.84(s,3H),5.16(s,2H),6.83(s,1H),7.00-7.42(m,11H) IR(KBr)3433,2940,1609,1581,1522,1499,1481,1461,1401,1366,1296,1269,1240,1178,1117,1079,1021,1011cm^{-1}
I-376	m.p.142-144℃ ^{1}HNMR(CDCl$_3$) δ 2.37(s,3H),3.42(s,3H),3.71(s,3H),3.85(s,3H),5.14(s,2H),5.91(s,1H),6.43(s,1H),7.01-7.42(m,11H) IR(KBr)3367,2936,1615,1583,1520,1502,1482,1464,1447,1405,1359,1317,1291,1274,1239,1121,1109,1070,1009cm^{-1}
I-377	m.p.174-176℃ ^{1}HNMR(CDCl$_3$) δ 3.21(s,3H),3.41(s,3H),3.63(s,3H),3.77(s,3H),5.30(s,2H),6.94(s,1H),7.03-7.05(m,2H),7.15-7.20(m,1H),7.25(m,1H),7.38(d,J=8.9Hz,2H),7.62(d,J=7.8Hz,1H),7.71(d,J=8.9Hz,2H),7.76(dt,J=7.8,1.5Hz,1H),8.60(m,1H) IR(KBr)1732,1523,1474,1368,1148,1061,863,845,790cm^{-1}
I-378	m.p.>260℃ ^{1}HNMR(DMSO-d$_6$) δ 3.32(s,3H),3.73(s,3H),5.28(s,2H),6.87(d,J=8.7Hz,2H),7.00(s,1H),7.04(dd,J=8.9,1.8Hz,1H),7.16(dd,J=12.3,1.8Hz,1H),7.26(t,J=8.9Hz,1H),7.39(m,1H),7.57(d,J=8.7Hz,2H),7.58(d,J=7.8Hz,1H),7.89(dt,J=7.8,1.5Hz,1H),8.61(m,1H),9.61(s,1H),12.9(brs,1H) IR(KBr)3383,1735,1705,1610,1522,1471,1272,1226,1059,1014,838,762cm^{-1}
I-379	m.p.137-138℃ ^{1}HNMR(CDCl$_3$) δ 1.77(s,3H),1.82(s,3H),3.46(s,3H),3.79(s,3H),4.64(d,J=4.6Hz,1H),5.56(t,J=4.6Hz,1H),6.92-7.20(m,6H),7.61(dd,J=3.6,5.8Hz,2H),9.96(Brs,1H) IR(KBr)3434,2966,2935,2839,1702,1695,1521,1466,1378,1299,1287,1272,1240,1012,840cm^{-1}

Table 78

I-380	m.p.98-99℃ ^{1}HNMR($CDCl_3$) δ 2.37(s,3H),3.45(s,3H),3.78(s,3H),5.15(s,2H),6.93-7.26(m,4H),7.36(d,J=7.8Hz,2H),7.62(dd,J=4.0,8.8Hz,2H),9.94(s,1H) IR(KBr)3446,2933,2845,1699,1521,1473,1463,1381,1293,1261,1238,1221,1131,803cm^{-1}
I-381	m.p.118-119℃ ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.74(s,3H),2.54(dt,J=5.0,7.8Hz,2H),3.45(s,3H),3.78(s,3H),4.05(t,J=7.2Hz,2H),5.24(t,J=4.4Hz,1H),6.95-7.16(m,6H),7.61(dd,J=3.4,8.8Hz,2H),9.95(brs,1H) IR(KBr)3433,2959,2930,2842,1701,1602,1522,1464,1379,1303,1263,1222,1132,1018cm^{-1}
I-382	m.p.93-94℃ ^{1}HNMR(DMSO-d_6) δ 1.74(s,3H),1.78(s,3H),3.32(s,3H),3.71(s,3H),4.62(d,J=7.0Hz,2H),5.48(t,J=5.8Hz,1H),6.91(s,1H),7.09-7.35(m,2H),7.64-7.71(m,2H) IR(KBr)3433,2976,2937,1707,1604,1520,1472,1376,1300,1265,1226,1160,1131,1060,839cm^{-1}
I-383	m.p.98-99℃ ^{1}HNMR(DMSO-d_6) δ 2.32(s,3H),3.31(s,3H),3.70(s,3H),5.13(s,2H),6.88(s,1H),7.14-7.39(m,5H),7.63-7.70(m,2H) IR(KBr)3433,2981,2937,1704,1603,1520,1470,1375,1301,1266,1226,1159,1061,839cm^{-1}
I-384	oil ^{1}HNMR(DMSO-d_6) δ 1.68(s,3H),1.74(s,3H),2.48-2.56(m,2H),3.57(s,3H),3.77(s,3H),3.98(t,J=4.8Hz,2H),5.26(t,J=4.2Hz,1H),6.84(s,1H),7.05-7.36(m,5H),7.63-7.70(m,2H) IR(KBr)3433,2979,2938,1726,1603,1522,1470,1376,1301,1264,1226,1160,1132,1080,1058,840cm^{-1}
I-385	m.p.137-138℃ ^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.82(s,3H),2.55(s,3H),3.21(s,3H),3.57(s,3H),3.78(s,3H),4.56(d,J=7.0Hz,2H),5.52(t,J=7.4Hz,1H),6.84(s,1H),7.02(d,J=8.8Hz,2H),7.34-7.40(m,4H),7.70(d,J=8.8Hz,2H) IR(KBr)3434,2938,1607,1519,1366,1244,1174,1151,1072,871,796cm^{-1}

Table 79

I-386	m.p.169-170℃ ^{1}HNMR($CDCl_3$) δ 2.48(s,3H),3.21(s,3H),3.56(s,3H),3.77(s,3H),5.08(s,2H),6.84(s,1H),7.07(d,J=5.8Hz,2H),7.19-7.39(m,4H),7.70(d,J=6.0Hz,2H) IR(KBr)3432,3016,2935,1605,1519,1479,1368,1357,1233,1176,1151,1076,876,843,798cm^{-1}
I-387	m.p.140-141℃ ^{1}HNMR($CDCl_3$) δ 1.68(s,3H),1.75(s,3H),2.51(dt,J=4.4,4.6Hz,2H),2.55(s,3H),3.21(s,3H),3.56(s,3H),3.77(s,3H),3.97(t,J=4.8Hz,2H),5.26(t,J=4.0Hz,1H),6.84(s,1H),6.99(d,J=5.8Hz,2H),7.34-7.39(m,4H),7.70(d,J=5.8Hz,2H) IR(KBr)3445,2937,1608,1519,1480,1391,1361,1351,1237,1177,1154,1077,962,871,862,800cm^{-1}
I-388	m.p.124-125℃ ^{1}HNMR(DMSO-d_6) δ 1.73(s,3H),1.75(s,3H),3.30(s,3H),3.65(s,3H),4.54(d,J=6.6Hz,2H),5.47(t,J=6.4Hz,1H),6.40(s,1H),6.82-6.94(m,4H),7.20(d,J=8.6Hz,2H),7.44(d,J=8.2Hz,2H) IR(KBr)3411,2934,1608,1523,1487,1396,1231,1175,1105,1072,996,898cm^{-1}
I-389	m.p.93-94℃ ^{1}HNMR(DMSO-d_6) δ 2.32(s,3H),3.32(s,3H),3.64(s,3H),5.08(s,2H),6.40(s,1H),6.84(d,J=8.6Hz,2H),6.98(d,J=8.6Hz,2H),7.19-7.23(m,4H),7.34-7.46(m,4H) IR(KBr)3398,2933.,1609,1523,1486,1461,1398,1235,1174,1119,1071,997,829cm^{-1}
I-390	oil ^{1}HNMR(DMSO-d_6) δ 1.72(s,3H),1.74(s,3H),2.52(dt,J=4.8,5.0Hz,2H),3.24(s,3H),3.58(s,3H),4.06(t,J=7.2Hz,2H),5.24(t,J=4.4Hz,1H),6.80-6.95(m,4H),7.22(d,J=8.4Hz,2H),7.46(d,J=8.2Hz,2H) IR(KBr)3340,2934,1608,1522,1486,1396,1285,1230,1175,1106,1072,996,828cm^{-1}
I-391	^{1}HNMR($CDCl_3$+CD_3OD) δ 3.05(s,3H),3.48(s,3H),3.75(s,3H),5.16(s,2H),5.97(s,1H),6.02(s,1H),6.47(s,1H),6.94(d.d,J=8.4&1.8Hz,1H),7.04(d,J=8.4Hz,1H),7.07(d,J=1.8Hz,1H),7.22-7.52(m,9H) IR(KBr)3548,3357,1603,1589,1520,1487,1460,1445,1410,1329,1286,1247,1153,1115,1077,1010cm^{-1}

Table 80

I-392	^{1}HNMR(CDCl$_3$) δ 2.37(s,3H),2.77-2.88(broad,1H),3.47(s,3H),3.64(s,3H),3.72(s,3H),3.82(s,3H),4.32(d.d,J=11.1&0.6Hz,1H),4.45-4.56(broad,1H),4.92(s,1H),5.16(s,2H),6.70(d,J=9.3Hz,2H),6.88(s,1H),6.92(d,J=9.0Hz,2H),7.22(d,J=8.4Hz,2H),7.38(d,J=8.4Hz,2H),7.56(d,J=9.0Hz,2H) IR(KBr)3476,1610,1519,1476,1463,1386,1265,1215,1074,1041,1010cm^{-1}
I-393	foam ^{1}HNMR(CD$_3$OD) δ 2.34(s,3H),3.38(s,3H),3.68(s,3H),4.00(dd,J=9.9,8.7Hz,1H),4.17(dd,J=9.9,3.0Hz,1H),5.06(dd,J=8.7,3.0Hz,1H),6.43(s,1H),6.78(dd,J=8.7,1.8,1H),6.85(d,J=8.7Hz,2H),6.88(d,J=1.8Hz,1H),6.91(d,J=8.4Hz,1H),7.20(d,J=8.1Hz,2H),7.36(d,J=8.1Hz,2H),7.46(d,J=8.7Hz,2H) IR(Nujol)3367,1655,1612,1586,1523,1489,1459,1254,1225,1115,1072,1015,941,817cm^{-1}
I-394	foam ^{1}HNMR(CD$_3$OD) δ 3.38(s,3H),3.67(s,3H),4.02(dd,J=10.2,9.0Hz,1H),4.20(dd,J=10.2,3.3Hz,1H),5.11(dd,J=9.0,3.3Hz,1H),6.43(s,1H),6.78(dd,J=8.4,2.1,1H),6.85(d,J=8.7Hz,2H),6.88(d,J=2.1Hz,1H),6.91(d,J=8.4Hz,1H),7.46(d,J=8.7Hz,2H),7.30~7.50(m,5H) IR(Nujol)3368,1655,1612,1587,1523,1489,1456,1254,1225,1114,1072,1014,941,825,764cm^{-1}
I-395	foam ^{1}HNMR(CDCl$_3$) δ 2.48(s,3H),2.82(s,3H),3.16(s,3H),3.22(s,3H),3.54(s,3H),3.77(s,3H),6.85(s,3H),7.34~7.38(m,2H),7.38(d,J=8.1Hz,2H),7.39(d,J=8.7Hz,2H),7.46(d,J=1.8Hz,1H),7.46(d,J=8.7Hz,2H),7.82(d,J=8.1Hz,2H) IR(Nujol)1597,1514,1479,1464,1177,1152,1085,969,883,846,797,729cm^{-1}
I-396	foam ^{1}HNMR(CDCl$_3$) δ 2.85(s,3H),3.14(s,3H),3.22(s,3H),3.54(s,3H),3.77(s,3H),6.85(s,1H),7.36(m,2H),7.39(d,J=8.7Hz,2H),7.45,(m,1H),7.60(m,2H),7.66(d,J=8.7Hz,2H),7.74(m,1H),7.94(m,2H) IR(Nujol)1612,1584,1514,1479,1451,1179,1152,1085,969,949,846,797,737cm^{-1}

Table 81

I-397	foam ^{1}HNMR($CDCl_3$) δ 2.73(s,3H),3.21(s,6H),3.55(s,3H),3.77(s,3H),5.20(s,2H),6.84(s,1H),7.16(brs,1H),7.22(d,J=8.1Hz,1H),7.33,(d,J=2.4Hz,1H),7.37(brs,2H),7.38(d,J=8.7Hz,2H),7.65(brs,1H),7.67(d,J=8.7Hz,2H) IR(Nujol)1608,1519,1480,1464,1176,1151,1080,972,876,846,798cm^{-1}
I-398	foam ^{1}HNMR($CDCl_3$) δ 2.91(s,3H),3.19(s,3H),3.22(s,3H),3.54(s,3H),3.78(s,3H),5.26(s,2H),5.34(s,2H),7.04(brs,1H),7.05(s,2H),7.12(brs,1H),7.39(d,J=8.7Hz,2H),7.36~7.43(m,3H),7.67(d,J=8.7Hz,2H) IR(Nujol)1608,1519,1480,1463,1176,1151,1079,972,876,799cm^{-1}
I-399	m.p.203-205℃ ^{1}HNMR(DMSO-d_6) δ 2.87(s,3H),3.35(s,3H),3.45(s,3H),3.52(s,3H),3.78(s,3H),5.39(s,2H),7.07(s,1H),7.08(d,J=3.9Hz,1H),7.16(d,J=3.9Hz,1H),7.31(dd,J=9.0,1.8Hz,1H),7.33(s,1H),7.42(d,J=9.0Hz,1H),7.49(d,J=8.7Hz,2H),7.74(d,J=8.7Hz,2H) IR(Nujol)1609,1520,1481,1455,1231,1080,1013,984,947,878,832,798cm^{-1}
I-400	foam ^{1}HNMR($CDCl_3$) δ 2.72(s,3H),3.14(s,3H),3.21(s,3H),3.55(s,3H),3.77(s,3H),5.14(s,2H),6.84(s,1H),7.11(d,J=8.7Hz,1H),7.34(dd,J=2.1,8.7Hz,1H),7.34(d,J=8.4Hz,2H),7.37(d,J=8.4Hz,2H),7.41(d,J=2.1Hz,1H),7.54(d,J=8.4Hz,2H),7.68(d,J=8.4Hz,2H)
I-401	foam ^{1}HNMR($CDCl_3$) δ 2.83(s,3H),3.14(s,3H),3.22(s,3H),3.55(s,3H),3.78(s,3H),5.26(s,2H),6.85(s,1H),7.24(d,J=8.4Hz,1H),7.38(d,J=8.4Hz,1H),7.41(dd,J=2.1,8.4Hz,1H),7.44(d,J=2.1Hz,1H),7.67(d,J=8.4Hz,2H) IR(KBr)1609,1523,1509,1481,1367,1402,1178,1152,1080,973,943,876,798cm^{-1}

Table 82

I-402	foam ^{1}HNMR($CDCl_3$) δ 2.68(s,3H),3.14(s,3H),3.21(s,3H),3.55(s,3H),3.66(s,2H),3.71(s,3H),3.78(s,3H),5.18(s,2H),6.84(s,1H),7.14(d,J=8.4Hz,1H),7.32(d,J=8.7Hz,1H),7.35(dd,J=2.1,8.7Hz,1H),7.37(d,J=8.4Hz,2H),7.39(d,J=2.1Hz,1H),7.42(d,J=8.4Hz,2H),7.67(d,J=8.4Hz,2H) IR(KBr)1736,1610,1519,1481,1365,1177,1151,1079,876,817,798cm^{-1}
I-403	foam ^{1}HNMR($CDCl_3$) δ 2.70(s,3H),3.16(s,3H),3.21(s,3H),3.56(s,3H),3.78(s,3H),5.24(s,2H),6.84(s,1H),7.18(d,J=8.4Hz,1H),7.36(dd,J=1.5,8.4Hz,1H),7.38(d,J=8.4Hz,2H),7.41(d,J=1.5Hz,1H),7.46(m,2H),7.54(d,J=8.1Hz,2H),7.62(m,3H),7.64(d,J=8.1Hz,2H),7.68(d,J=8.4Hz,2H) IR(KBr)1609,1519,1481,1365,1177,1151,1079,1014,876,818,797cm^{-1}
I-404	m.p.128-130℃ ^{1}HNMR($CDCl_3$) δ 2.75(s,3H),2.92(s,3H),3.18(t,J=6.9Hz,2H),3.21(s,3H),3.55(s,3H),3.77(s,3H),4.34(t,J=6.9Hz,2H),6.81(s,1H),7.08(d,J=8.4Hz,1H),7.29(m,2H),7.32(br.s,3H),7.35(dd,J=2.1,8.4Hz,1H),7.38(d,J=8.4Hz,2H),7.39(d,J=2.1Hz,1H),7.67(d,J=8.4Hz,2H) IR(KBr)1609,1520,1481,1364,1177,1151,1080,872,815,797cm^{-1}
I-405	foam ^{1}HNMR($CDCl_3$) δ 1.71(d,J=6.3Hz,3H),2.45(br.s,3H),3.20(s,3H),3.28(s,3H),3.53(s,3H),3.75(s,3H),5.43(q,J=6.3Hz,1H),6.81(s,1H),6.90(d,J=8.4Hz,1H),7.16(dd,J=2.1,8.4Hz,1H),7.30(m,1H),7.36(d,J=2.1Hz,1H),7.37(d,J=8.4Hz,2H),7.35-7.41(m,4H),7.66(d,J=8.4Hz,2H) IR(KBr)1609,1518,1480,1365,1177,1151,1078,874,818,798cm^{-1}

Table 83

I-406	foam ^{1}HNMR($CDCl_3$) δ 1.02(t,J=9.0Hz,3H),2.04(dq,J=6.3,9.0Hz,2H),2.39(br.s,3H),3.20(s,3H),3.30(s,3H),3.53(s,3H),3.75(s,3H),5.18(t,J=6.3Hz,1H),6.80(s,1H),6.88(d,J=8.4Hz,1H),6.92(m,1H),7.14(dd,J=2.4,8.4Hz,1H),7.25-7.40(m,7H),7.66(d,J=8.4Hz,2H) IR(KBr)1609,1518,1480,1365,1177,1151,1079,874,819,797cm^{-1}
I-407	foam ^{1}HNMR($CDCl_3$) δ 2.46(s,3H),3.07(s,3H),3.20(s,3H),3.54(s,3H),3.76(s,3H),6.33(s,1H),6.82(s,1H),6.99(d,J=9.0Hz,1H),7.19(dd,J=2.1,9.0Hz,1H),7.26-7.40(m,9H),7.43-7.47(m,4H),7.66(d,J=8.4Hz,2H) IR(KBr)1607,1518,1481,1364,1177,1151,1081,873,822,798cm^{-1}
I-408	m.p.179-180℃ ^{1}HNMR($CDCl_3$) δ 1.69(d,J=6.3Hz,3H),2..34(br.s,3H),2.45(s,3H),3.20(s,3H),3.27(s,3H),3.54(s,3H),3.75(s,3H),5.40(q,J=6.3Hz,1H),6.81(s,1H),6.92(d,J=8.7Hz,1H),7.15(d,J=8.7Hz,2H),7.16(dd,J=2.1,8.4Hz,1H),7.27(d,J=8.7Hz,1H),7.35(d,J=2.1Hz,1H),7.37(d,J=8.4Hz,2H),7.66(d,J=8.4Hz,2H) IR(KBr)1609,1518,1480,1365,1177,1151,1078,874,819,797cm^{-1}
I-409	m.p.243-244℃ ^{1}HNMR(DMSO-d_6) δ 3.30(s,3H),3.64(s,3H),5.19(s,2H),6.39(s,1H),6.64(dd,J=1.8,8.4Hz,1H),6.77(d,J=1.8Hz,1H),6.83(d,J=8.4Hz,2H),6.97(d,J=8.4Hz,1H),7.37(t,J=7.5Hz,1H),7.44(d,J=8.4Hz,2H),7.48(t,J=8.4Hz,2H),7.60(d,J=8.4Hz,2H),7.67-7.73(m,5H) IR(KBr)3421,1610,1523,1488,1463,1403,1176,1115,1072,821cm^{-1}
I-410	foam ^{1}HNMR($CDCl_3$) δ 3.18(t,J=6.9Hz,2H),3.45(s,3H),3.73(s,3H),4.31(t,J=6.9Hz,2H),6.44(s,1H),6.91(d,J=8.4Hz,2H),6.94(br.s,2H),7.03(br.s,1H),7.23-7.37(m,5H),7.53(d,J=8.4Hz,2H) IR(KBr)3434,1612,1587,1523,1489,1455,1403,1250,1113,1070,1011,825,815cm^{-1}

Table 84

I-411	foam ^{1}HNMR($CDCl_3$) δ 1.70(d,J=6.0Hz,3H),3.44(s,3H),3.72(s,3H),5.36(q,J=6.0Hz,1H),6.42(s,1H),6.78(d,J=8.1Hz,1H),6.81(dd,J=1.5,8.7Hz,1H),6.91(d,J=8.4Hz,2H),7.06(d,J=1.5Hz,1H),7.26-7.42(m,4H),7.51(d,J=8.4Hz,2H) IR(KBr)3472,1612,1587,1523,1488,1454,1403,1248,1113,1070,1011,825,cm^{-1}
I-412	foam ^{1}HNMR($CDCl_3$) δ 1.03(t,J=7.2Hz,3H),1.94(m,1H),2.06(m,1H),3.43(s,3H),3.72(s,3H),5.08(dd,J=7.2,5.4Hz,1H),6.43(s,1H),6.73(d,J=8.4Hz,1H),6.78(dd,J=1.8,8.4Hz,1H),6.90(d,J=8.4Hz,2H),7.05(d,J=1.8Hz,1H),7.25-7.38(m,5H),7.51(d,J=8.4Hz,2H) IR(KBr)3434,1612,1522,1488,1454,1403,1247,1113,1070,1011,826,811cm^{-1}
I-413	foam ^{1}HNMR($CDCl_3$) δ 3.44(s,3H),3.73(s,3H),6.25(s,1H),6.43(s,1H),7.26(m,2H),6.90(d,J=8.4Hz,2H),7.08(d,J=2.1Hz,1H),7.29-7.43(m,10H),7.51(d,J=8.4Hz,2H) IR(KBr)3432,1611,1523,1489,1454,1402,1226,1110,1069,1011,825cm^{-1}
I-414	foam ^{1}HNMR($CDCl_3$) δ 1.69(d,J=6.3Hz,3H),2..35(s,3H),3.44(s,3H),3.72(s,3H),5.33(q,J=6.3Hz,1H),6.42(s,1H),6.80(br.s,2H),6.90(d,J=8.4Hz,2H),7.05(br.s,1H),7.18(d,J=7.8Hz,2H),7.29(d,J=7.8Hz,2H),7.51(d,J=8.4Hz,2H) IR(KBr)3433,1612,1522,1488,1459,1403,1248,1113,1069,1011,817cm^{-1}
I-415	m.p.164-167℃ ^{1}HNMR($CDCl_3$) δ 3.79(s,3H),3.80(s,3H),4.81(brs,1H),5.29(s,2H),6.88-6.94(m,4H),7.16(d,J=8.7Hz,1H),7.32-7.52(m,7H),7.73(dd,J=2.1,8.7Hz,1H),8.10(d,J=2.1Hz,1H) IR(KBr)3513,2930,1618,1529,1497,1448,1387,1354,1296,1257,1211,1168,1091,1064,1024cm^{-1}

Table 85

I-416	m.p.155-159℃ ^{1}HNMR(CDCl$_3$) δ 3.20(s,3H),3.39(s,3H),3.82(s,3H),3.83(s,3H),6.95(s,1H),6.96(s,1H),7.34-7.38(m,2H),7.58-7.64(m,3H),7.87(dd,J=2.1,8.4Hz,1H),8.26(d,J=2.1Hz,1H) IR(KBr)3433,2944,1539,1519,1487,1358,1216,1176,1150,1086,1057,1031cm^{-1}
I-417	m.p.124-126℃ ^{1}HNMR(CDCl$_3$) δ 3.19(s,3H),3.80(s,6H),5.30(s,2H),6.93(s,1H),6.94(s,1H),7.18(d,J=9.0Hz,1H),7.32-7.52(m,7H),7.59-7.64(m,2H),7.73(dd,J=2.1,9.0Hz,1H),8.10(d,J=2.1Hz,1H) IR(KBr)3433,2937,1619,1531,1491,1465,1450,1358,1290,1256,1211,1176,1150,1088,1062,1033cm^{-1}
I-418	m.p.151-153℃ ^{1}HNMR(CDCl$_3$) δ 3.18(s,3H),3.781(s,3H),3.784(s,3H),5.14(s,2H),6.90-7.00(m,5H),7.31-7.50(m,7H),7.60-7.65(m,2H) IR(KBr)3480,3383,2930,1610,1523,1489,1467,1383,1358,1330,1211,1175,1147,1024cm^{-1}
I-419	m.p.198-200℃ ^{1}HNMR(CDCl$_3$) δ 3.77(s,6H),5.13(s,2H),6.86-7.00(m,7H),7.34-7.50(m,7H) IR(KBr)3403,3327,1611,1592,1525,1492,1462,1444,1384,1318,1273,1243,1209,1178,1149,1110,1058,1037,1006cm^{-1}
I-420	m.p.168-171℃ ^{1}HNMR(CDCl$_3$) δ 2.99(s,3H),3.19(s,3H),3.80(s,3H),3.81(s,3H),5.16(s,2H),6.83(brs,1H),6.92(s,1H),6.96(s,1H),7.06(d,J=8.7Hz,1H),7.32-7.46(m,8H),7.60-7.64(m,2H),7.81(d,J=2.1Hz,1H) IR(KBr)3403,3327,1611,1592,1525,1492,1462,1444,1384,1318,1273,1243,1209,1178,1149,1110,1058,1037,1006cm^{-1}
I-421	m.p.168-171℃ ^{1}HNMR(CDCl$_3$) δ 3.19(s,3H),3.80(s,3H),3.81(s,3H),5.23(s,2H),6.93(s,1H),6.97(s,1H),7.07(d,J=8.7Hz,1H),7.33-7.45(m,8H),7.61-7.65(m,2H),8.58(d,J=2.4Hz,1H),8.66(brs,1H) IR(KBr)3401,1723,1613,1595,1549,1518,1486,1385,1365,1330,1299,1256,1212,1151,1119,1060,1037,1017cm^{-1}

Table 86

I-422	m.p.159-160℃ ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.74,(s,3H),2.55(q,J=7.2Hz,2H),2.73(s,3H),3.22(s,3H),3.55(s,3H),3.77(s,3H),4.06(t,J=7.2Hz,2H),5.24(t,J=7.2Hz,1H),6.85(s,1H),7.07(d,J=8.6Hz,1H),7.39(d,J=8.7Hz,2H),7.55(dd,J=8.6,2.1Hz,1H),7.63(d,J=2.1Hz,1H),7.68(d,J=8.7Hz,2H) IR(KBr)1515,1481,1359,1325,1175,1140,1079,870,799cm^{-1}
I-423	m.p.180-182℃ ^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.81,(s,3H),2.71(s,3H),3.22(s,3H),3.55(s,3H),3.78(s,3H),4.06(d,J=6.3Hz,2H),5.50(t,J=6.3Hz,1H),6.85(s,1H),7.09(d,J=8.7Hz,1H),7.39(d,J=8.7Hz,2H),7.55(dd,J=8.7,2.0Hz,1H),7.64(d,J=2.0Hz,1H),7.68(d,J=8.7Hz,2H) IR(KBr)1514,1479,1360,1241,1174,1132,1078,866,800cm^{-1}
I-424	m.p.176-178℃ ^{1}HNMR($CDCl_3$) δ 2.64(s,3H),3.22(s,3H),3.55(s,3H),3.78(s,3H),5.26(s,2H),6.85(s,1H),7.14(d,J=8.6Hz,1H),7.33-7.48(m,7H),7.54(dd,J=8.6,2.1Hz,1H),7.66-7.70(m,3H) IR(KBr)1517,1482,1367,1327,1178,1150,1135,1081,878,797cm^{-1}
I-425	m.p.199-200℃ ^{1}HNMR($CDCl_3$) δ 2.37(s,3H),2.63(s,3H),3.21(s,3H),3.55(s,3H),3.78(s,3H),5.21(s,2H),6.84(s,1H),7.13(d,J=8.7Hz,1H),7.20(d,J=8.0Hz,2H),7.34(d,J=8.0Hz,2H),7.38(d,J=9.0Hz,2H),7.53(dd,J=8.7,1.8Hz,1H),7.66(d,J=1.8Hz,1H),7.68(d,J=9.0Hz,2H) IR(KBr)1517,1481,1366,1326,1255,1177,1151,1082,871,798cm^{-1}
I-426	amorphous ^{1}HNMR($CDCl_3$) δ 1.68(s,3H),1.73(s,3H),2.54(q,J=7.2Hz,2H),3.44(s,3H),3.75(s,3H),4.05(t,J=7.2Hz,2H),.5.07(s,1H),5.24(t,J=7.2Hz,1H),6.02(s,1H),6.45(s,1H),6.92(d,J=8.6Hz,2H),7.41(d,J=8.6Hz,1H),7.53(d,J=8.6Hz,2H),7.59(dd,J=8.6,2.0Hz,1H),7.63(d,J=2.0Hz,1H) IR($CHCl_3$)3595,3506,1614,1523,1489,1326,1281,1258,1122,1079,1057cm^{-1}

Table 87

I-427	m.p.180-182℃ ^{1}HNMR($CDCl_3$) δ 1.75(s,3H),1.80(s,3H),3.44(s,3H),3.76(s,3H),4.66(d,J=6.6Hz,2H),4.87(s,1H),5.52(t,J=6.6Hz,1H),6.02(s,1H),6.46(s,1H),6.93(d,J=8.9Hz,2H),7.06(d,J=8.4Hz,1H),7.53(d,J=8.9Hz,2H),7.59(dd,J=8.4,2.1Hz,1H),7.71(d,J=2.1Hz,1H), IR(KBr)3406,1615,1522,1488,1399,1324,1280,1256,1138,1116,1076,1054,996,835,826cm^{-1}
I-428	m.p.133-135℃ ^{1}HNMR($CDCl_3$) δ 3.44(s,3H),3.75(s,3H),4.87(s,1H),5.23(s,2H),6.03(s,1H),6.46(s,1H),6.93(d,J=8.6Hz,2H),7.11(d,J=8.4Hz,1H),7.32-7.49(m,5H),7.53(d,J=8.6Hz,2H),7.60(dd,J=8.4,2.1Hz,1H),7.75(d,J=2.1Hz,1H), IR(KBr)3397,1612,1523,1489,1400,1321,1257,1132,1084,1056,1002,832cm^{-1}
I-429	m.p.174-176℃ ^{1}HNMR($CDCl_3$) δ 2.37(s,3H),3.44(s,3H),3.75(s,3H),4.88(s,1H),5.18(s,2H),6.02(s,1H),6.45(s,1H),6.93(d,J=8.6Hz,2H),7.11(d,J=8.4Hz,1H),7.21(d,J=8.1Hz,2H),7.36(d,J=8.1Hz,2H),7.53(d,J=8.6Hz,2H),7.59(dd,J=8.4,2.1Hz,1H),7.74(d,J=2.1Hz,1H), IR(KBr)3481,3376,1616,1520,1491,1327,1260,1119,1081,1004,827cm^{-1}
I-430	^{1}HNMR($CDCl_3$) δ 2.37(s,3H),2.54(s,3H),2.68(s,3H),3.12(s,3H),3.54(s,3H),3.77(s,3H),5.14(s,2H),6.85(s,1H),7.12-7.24(m,3H),7.30-7.44(m,6H),7.53-7.59(m,2H) IR($CHCl_3$)1608,1517,1476,1367,1117,1080,1013,970,876cm^{-1}
I-431	m.p.164-168℃ ^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.82(s,3H),2.54(s,3H),3.47(s,3H),3.75(s,3H),4.62(d,J=6.9Hz,2H),5.53(m,1H),5.69(s,1H),5.89(s,1H),6.46(s,1H),6.92-7.08(m,3H),7.30-7.38(m,2H),7.55-7.62(m,2H) IR($CHCl_3$)3518,2968,1584,1516,1483,1460,1414,1388,1310,1289,1243,1114,1069,1011,936,818cm^{-1}
I-432	m.p.179-181℃ ^{1}HNMR($CDCl_3$) δ 2.39(s,3H),2.54(s,3H),3.46(s,3H),3.74(s,3H),5.10(s,2H),5.67(s,1H),5.89(s,1H),6.46(s,1H),6.81(dd,J=2.1,8.4Hz,1H),7.03(d,J=8.4Hz,1H),7.08(d,J=2.1Hz,1H),7.20-7.26(m,2H),7.31-7.37(m,4H),7.55-7.61(m,2H) IR($CHCl_3$)3524,2930,1585,1517,1483,1460,1414,1389,1310,1289,1245,1114,1090,1070,1009,937,818cm^{-1}

Table 88

1-433	m.p.111-112℃ ^{1}HNMR($CDCl_3$) δ 1.76(d,J=0.6Hz,3H),1.81(d,J=0.9Hz,3H),2.69(s,3H),3.52(s,3H),3.78(s,3H),4.63(t,J=6.6Hz,2H),5.53(m,1H),6.84(s,1H),7.02-7.25(m,5H),7.56-7.65(m,2H) IR($CHCl_3$)2932,1607,1520,1481,1368,1266,1080,1012,961,907,836,812cm^{-1}
1-434	m.p.97-101℃ ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.75(d,J=0.9Hz,3H),2.48-2.58(m,5H),3.46(s,3H),3.47(s,3H),4.06(t,J=6.9Hz,2H),5.22(m,1H),5.67(s,1H),5.88(s,1H),6.46(s,1H),6.92-6.97(m,2H),7.05(m,1H),7.30-7.38(m,2H),7.55-7.62(m,2H) IR($CHCl_3$)3518,2928,1584,1517,1483,1414,1388,1290,1246,1114,1090,1070,1011,937,907,818cm^{-1}
1-435	m.p.127-129℃ ^{1}HNMR($CDCl_3$) δ 1.68(s,3H),1.74(d,J=1.2Hz,3H),2.50-2.60(m,2H),2.71(s,3H),3.52(s,3H),3.77(s,3H),4.04(t,J=7.2Hz,2H),5.23(m,1H),6.83(s,1H),7.00-7.21(m,5H),7.57-7.64(m,2H) IR($CHCl_3$)2930,1607,1520,1481,1368,1266,1080,1012,960,836,812cm^{-1}
1-436	m.p.159-161℃ ^{1}HNMR($CDCl_3$) δ 2.36(s,3H),2.57(s,3H),3.52(s,3H),3.77(s,3H),5.16(s,2H),6.83(s,1H),7.05-7.24(m,7H),7.31-7.37(m,2H),7.56-7.65(m,2H) IR($CHCl_3$)1520,1481,1368,1267,1131,1080,1012,960,836cm^{-1}
1-437	m.p.120-124℃ ^{1}HNMR($CDCl_3$) δ 1.76(d,J=0.6Hz,3H),1.81(d,J=0.6Hz,3H),3.43(s,3H),3.67(s,3H),4.63(d,J=6.6Hz,2H),5.56(m,1H),5.96(s,1H),6.44(s,1H),7.00-7.24(m,5H),7.57-7.66(m,2H) IR($CHCl_3$)3522,2930,1586,1518,1484,1415,1390,1311,1290,1248,1115,1090,1071,1012,938,818cm^{-1}

Table 89

I-438	m.p.140.5-141.5℃ ^{1}HNMR(CDCl$_3$) δ 2.37(s,3H),3.43(s,3H),3.75(s,3H),5.14(s,2H),5.97(s,1H),6.44(s,1H),7.04-7.28(m,7H),7.36(d,J=8.1Hz,1H),7.57-7.65(m,2H) IR(CHCl$_3$)3496,2932,1613,1520,1488,1460,1391,1313,1267,1113,1069,1010,934,825cm^{-1}
I-439	m.p.76.5-77.5℃ ^{1}HNMR(CDCl$_3$) δ 1.68(s,3H),1.74(d,J=0.9Hz,3H),2.49-2.60(m,2H),3.43(s,3H),3.75(s,3H),4.05(t,J=7.2Hz,2H),5.23(m,1H),5.96(s,1H),6.44(s,1H),6.99-7.28(m,5H),7.57-7.66(m,2H) IR(CHCl$_3$)3498,2930,1613,1521,1489,1391,1310,1267,1113,1070,1011,934,825cm^{-1}
I-440	m.p.174-176℃ ^{1}HNMR(CDCl$_3$) δ 2.80(s,3H),3.46(s,3H),3.76(s,3H),5.16(s,2H),5.71(s,1H),5.88(s,1H),6.47(s,1H),6.95(dd,J=1.8,8.4Hz,1H),7.04(d,J=8.4Hz,1H),7.08(d,J=1.8Hz,1H),7.34-7.49(m,5H),7.72-7.85(m,4H) IR(CHCl$_3$)3518,1587,1516,1483,1459,1415,1387,1290,1114,1070,1041,1011,936,821cm^{-1}
I-441	m.p.199-202℃ ^{1}HNMR(d6-DMSO) δ 3.28(s,3H),3.34(s,3H),3.67(s,3H),5.14(s,2H),6.52(s,1H),6.66(dd,J=2.1,8.4Hz,1H),6.79(d,J=2.1Hz,1H),6.97(d,J=8.4Hz,1H),7.30-7.56(m,5H),7.86-7.93(m,2H),7.98-8.04(m,2H),8.65-9.02(brs,2H) IR(KBr)3487,3413,3004,1597,1518,1500,1482,1456,1360,1310,1281,1231,1146,1118,1090,1068,1016,1004,961cm^{-1}
I-442	m.p.80-84℃ ^{1}HNMR(CDCl$_3$) δ 1.15(t,J=7.2Hz,3H),3.60(q,J=7.2Hz,2H),3.75(s,3H),5.03(s,1H),5.15(s,2H),5.69(s,1H),5.98(s,1H),6.45(s,1H),6.88-6.94(m,2H),6.96(dd,J=2.1,8.1Hz,1H),7.02(d,J=8.1Hz,1H),7.10(d,J=2.1Hz,1H),7.34-7.49(m,5H),7.51-7.59(m,2H) IR(CHCl$_3$)3528,1612,1521,1488,1454,1412,1383,1286,1246,1113,1069,1023,886,825cm^{-1}

Table 90

1-443	m.p.168-169℃ ^{1}HNMR(CDCl$_3$) δ 1.14(t,J=6.9Hz,3H),2.66(s,3H),3.13(s,3H),3.20(s,3H),3.72(q,J=6.9Hz,2H),3.78(s,3H),5.19(s,2H),6.84(s,1H),7.15(d,J=8.4Hz,1H),7.31-7.49(m,9H),7.66-7.73(m,5H) IR(CHCl$_3$)1517,1479,1369,1148,1117,1082,969,873cm^{-1}
1-444	m.p.192-194℃ ^{1}HNMR(CDCl$_3$) δ 3.13(s,3H),3.44(s,3H),3.63(s,3H),3.76(s,3H),5.14(br,1H),5.19(s,2H),6.81-6.84(m,2H),6.94(s,1H),7.14(d,J=8.4Hz,1H),7.22-7.25(m,2H),7.37-7.50(m,5H),7.57(dd,J=8.7,2.1Hz,1H),7.67(d,J=2.1Hz,1H) IR(CHCl$_3$)3595,3441,1730,1613,1522,1472,1371,1291,1258,1172,1164,1003,972,961,904,838cm^{-1}
1-445	m.p.179-180℃ ^{1}HNMR(CDCl$_3$) δ 1.77(s,3H),1.82(s,3H),2.31(s,3H),3.24(s,3H),3.45(s,3H),3.58(s,3H),3.76(s,3H),4.64(d,J=6.9Hz,2H),6.95(s,1H),7.06-7.13(m,3H),7.35-7.38(m,2H),7.57(dd,J=8.4,2.4Hz,1H),7.64(d,J=2.4Hz,1H) IR(CHCl$_3$)2938,1732,1614,1599,1518,1470,1445,1370,1345,1290,1228,1200,1169,1116,1081,1003,973,905,846,829cm^{-1}
1-446	m.p.137-138℃ ^{1}HNMR(CDCl$_3$) δ 3.13(s,3H),3.45(s,3H),3.59(s,3H),3.77(s,3H),3.88(s,3H),4.23(s,2H),5.19(s,2H),6.96(s,1H),7.15(d,J=8.7Hz,1H),7.35-7.50(m,9H),7.60(dd,J=8.7,2.4Hz,1H),7.67(d,J=2.4Hz,1H) IR(CHCl$_3$)2954,1750,1734,1614,1516,1471,1387,1372,1345,1291,1258,1173,1147,1118,1081,1064,1004,877cm^{-1}
1-447	m.p.184-185℃ ^{1}HNMR(CDCl$_3$) δ 3.44(s,3H),3.60(s,3H),3.74(s,3H),4.70(br,2H),5.17(s,2H),6.95-7.02(m,4H),7.17(dd,J=8.4,2.1Hz,1H),7.25(s,1H),7.31-7.34(d,J=8.7Hz,2H),7.38-7.47(m,5H) IR(CHCl$_3$)3541,2937,1776,1733,1608,1519,1474,1442,1344,1291,1157,1130,1085,1063,1002,900,862,835cm^{-1}

Table 91

I-448	m.p.176-178℃ ^{1}HNMR(CDCl$_3$) δ 3.12(s,3H),3.44(s,3H),3.60(s,3H),3.76(s,3H),3.83(s,3H),4.66(s,2H),5.19(s,2H),6.91-6.96(m,3H),7.14(d,J=8.4Hz,1H),7.28-7.49(m,7H),7.57(dd,J=8.7,2.4Hz,1H),7.67(d,J=2.4Hz,1H) IR(CHCl$_3$)2953,2939,1758,1732,1610,1519,1471,1444,1371,1345,1291,1177,1117,1085,1064,1002,973,961,904,837cm^{-1}
I-449	m.p.124-126℃ ^{1}HNMR(CDCl$_3$) δ 1.69(s,3H),1.74(d,J=0.9Hz,3H),2.31(s,3H),2.53-2.60(m,2H),3.23(s,3H),3.44(s,3H),3.58(s,3H),3.76(s,3H),4.09(t,J=6.6Hz,2H),5.22(m,1H),6.95(s,1H),7.07(d,J=8.4Hz,1H),7.10-7.13(m,2H),7.34-7.37(m,2H),7.57(dd,J=9.0,2.4Hz,1H),7.64(d,J=2.4Hz,1H) IR(CHCl$_3$)2938,1732,1614,1518,1469,1445,1370,1291,1257,1170,1167,1081,1004,973,961,906,846cm^{-1}
I-450	m.p.160-161℃ ^{1}HNMR(CDCl$_3$) δ 1.69(s,3H),1.74(d,J=0.9,3H),2.53-2.60(m,2H),3.23(s,3H),3.44(s,3H),3.62(s,3H),3.76(s,3H),4.08(d,J=6.6Hz,2H),4.91(br,1H),5.20-5.25(m,1H),6.83-6.86(m,2H),6.94(s,1H),7.06(d,J=8.7Hz,2H),7.23-7.26(m,2H),7.57(dd,J=8.7,2.4Hz,1H),7.64(d,J=2.4Hz,1H) IR(CHCl$_3$)3595,3448,2937,1730,1613,1522,1469,1445,1370,1345,1292,1260,1172,1117,1081,1064,1003,973,864,837cm^{-1}
I-451	m.p.182-184℃ ^{1}HNMR(CDCl$_3$) δ 1.70(d,J=0.6Hz,3H),1.81(d,J=0.9Hz,3H),3.24(s,3H),3.45(s,3H),3.63(s,3H),3.75(s,3H),4.64(d,J=6.6Hz,2H),5.48-5.54(m,1H),5.76(br,1H),6.78-6.82(m,2H),6.95(s,1H),7.08(d,J=8.7Hz,1H),7.19-7.24(m,2H),7.56(dd,J=8.7,2.4Hz,1H),7.64(d,J=2.4Hz,1H) IR(CHCl$_3$)3595,3445,2939,1730,1613,1522,1471,1445,1369,1345,1291,1257,1172,1116,1081,1064,1002,973,904,838cm^{-1}
I-452	m.p.250-253℃(dec.) ^{1}HNMR(CD$_3$OD) δ 3.41(s,3H),3.71(s,3H),4.58(s,2H),5.21(s,2H),6.29-6.95(m,3H),7.02-7.03(m,2H),7.17(s,1H),7.26-7.41(m,5H),7.49-7.52(m,2H) IR(KBr)3424,2933,2553,1709,1608,1519,1467,1383,1333,1291,1229,1129,1084,1060,1001,915,861,841,727,697cm^{-1}

Table 92

I-453	foam ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.75(d,J=1.2Hz,3H),2.51-2.58(m,2H),3.43(s,3H),3.62(s,3H),3.75(s,3H),4.08(t,J=6.9Hz,2H),4.85(br,1H),5.23(m,1H),5.71(br,1H),6.82-6.85(m,2H),6.90-6.94(m,2H),7.16(dd,J=8.4,2.1Hz,1H),7.23-7.26(m,3H) IR($CHCl_3$)3596,3541,2936,1730,1612,1590,1522,1470,1395,1345,1290,1258,1173,1130,1081,1063,1004,861,836cm^{-1}
I-454	m.p.166-167℃ ^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.82(s,3H),3.48(s,3H),3.75(s,3H),4.64(d,J=6.6Hz,2H),5.51-5.55(m,1H),5.75(br,1H),6.77-6.80(m,2H),6.93-6.96(m,2H),7.17(dd,J=8.1,2.1Hz,1H),7.23-7.28(m,3H) IR(KBr)3447,2937,1590,1559,1522,1473,1382,1338,1295,1259,1131,1080,1059,999,918,862,837,815,791,754cm^{-1}
I-455	m.p.168-170℃ ^{1}HNMR(CD_3OD) δ 1.68(s,3H),1.74(s,3H),2.50-2.58(m,2H),3.41(s,3H),3.73(s,3H),4.05(t,J=6.9Hz,2H),5.29(m,1H),6.76-6.79(m,2H),6.98-7.17(m,6H) IR(KBr)3411,2964,2936,1685,1613,1590,1523,1472,1379,1293,1259,1229,1131,1082,1061,1000,962,861,838,814,791,754,529cm^{-1}
I-456	m.p.153-155℃ ^{1}HNMR($CDCl_3$) δ 3.14(s,3H),3.50(s,3H),3.77(s,3H),5.20(s,2H),7.10-7.28(m,6H),7.38-7.50(m,5H),7.56(dd,J=8.4,2.1Hz,1H),7.65(d,J=2.1Hz,1H),9.98(s,1H) IR($CHCl_3$)2938,2843,1697,1604,1590,1517,1469,1372,1331,1293,1254,1172,1159,1123,1093,1005,963,818cm^{-1}
I-457	m.p.143-145℃ ^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.83(s,3H),3.44(s,3H),3.63(s,3H),3.75(s,3H),4.63(d,J=6.6Hz,2H),5.53(m,1H),5.72(br,1H),6.82-6.85(m,2H),6.92-6.95(m,2H),7.16(dd,J=8.4,2.4Hz,1H),7.23-7.26(m,3H) IR($CHCl_3$)3595,3537,2938,1729,1612,1591,1522,1473,1395,1344,1290,1258,1173,1129,1081,1063,1003,900,862,836cm^{-1}

Table 93

I-458	powder ^{1}HNMR($CDCl_3$) δ 2.37(s,3H),3.08(s,3H),3.11(s,3H),3.21(s,3H),3.51(s,3H),3.52(s,3H),5.26(s,2H),7.19-7.23(m,2H),7.36-7.43(m,4H),7.45-7.50(m,2H),7.82(d,J=2.1Hz,1H),7.98(d,J=2.1Hz,1H) IR($CHCl_3$)3033,2942,1543,1377,1220,1181,1153,1034cm^{-1}
I-459	m.p.182-187℃(dec.) ^{1}HNMR($CDCl_3$) δ 2.36(s,3H),2.73(s,3H),3.16(s,3H),3.22(s,3H),3.43(s,3H),3.47(s,3H),5.08(s,2H),6.85(brs,1H),6.92(brs,1H),7.17-7.21(m,2H),7.32-7.38(m,2H),7.39-7.44(m,2H),7.50-7.55(m,2H) IR($CHCl_3$)3030,2939,1618,1599,1513,1468,1416,1372,1178,1150,1031cm^{-1}
I-460	powder ^{1}HNMR($CDCl_3$) δ 2.38(s,3H),2.83(s,3H),3.05(s,3H),3.22(s,3H),3.56(s,3H),3.80(s,3H),3.91(s,3H),5.13(s,2H),6.86(s,1H),7.20-7.24(m,2H),7.37-7.46(m,4H),7.65-7.70(m,3H),7.89(d,J=2.1Hz,1H) IR($CHCl_3$)3032,2940,1728,1473,1373,1232,1179,1150,1085cm^{-1}
I-461	amorphous ^{1}HNMR($CDCl_3$) δ 3.78(s,6H),5.16(s,2H),5.31(d,J=3.6Hz,1H),5.72(s,1H),6.91(s,1H),6.94(s,1H),6.99(d,J=8.2Hz,1H),7.04(t,J=8.6Hz,1H),7.08(dd,J=8.2,2.1Hz,1H),7.22(d,J=2.1Hz,1H),7.25(ddd,J=8.6,1.8,0.9Hz,1H),7.34-7.46(m,6H) IR($CHCl_3$)3577,3548,1526,1495,1280,1635cm^{-1}
I-462	m.p.153-155℃ ^{1}HNMR($CDCl_3$) δ 3.12(s,3H),3.26(s,3H),3.80(s,3H),3.81(s,3H),5.18(s,2H),6.91(s,1H),6.94(s,1H),7.12(d,J=8.4Hz,1H),7.36-7.50(m,8H),7.59(d,J=1.8Hz,1H) IR($CHCl_3$)1494,1367,1212,1180,1116,872,808cm^{-1}

Table 94

I-463	m.p.125-127℃ ^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.82(s,3H),3.23(s,3H),3.27(s,3H),3.80(s,3H),3.82(s,3H),4.64(d,J=6.7Hz,2H),5.51(t,J=6.7Hz,1H),6.91(s,1H),6.95(s,1H),7.06(d,J=8.7Hz,1H),7.37(dd,J=8.7,1.9Hz,1H),7.40-7.47(m,2H),7.50(d,J=2.4Hz,1H),7.57(d,J=1.9Hz,1H) IR(KBr)1523,1496,1370,1213,1175,1116,1035,977,832,807cm^{-1}
I-464	m.p.149-151℃ ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.74(s,3H),2.55(q,J=7.0Hz,2H),3.21(s,3H),3.26(s,3H),3.80(s,3H),3.81(s,3H),4.07(t,J=7.0Hz,2H),5.21(t,J=7.0Hz,1H),6.91(s,1H),6.94(s,1H),7.05(d,J=8.4Hz,1H),7.37(dd,J=8.4,2.1Hz,1H),7.40-7.47(m,2H),7.50(d,J=2.1Hz,1H),7.57(d,J=2.1Hz,1H) IR(KBr)1523,1495,1368,1212,1176,1116,1035,976,832,806cm^{-1}
I-465	m.p.148-150℃ ^{1}HNMR($CDCl_3$) δ 2.38(s,3H),3.11(s,3H),3.26(s,3H),3.80(s,3H),3.81(s,3H),5.13(s,2H),6.91(s,1H),6.94(s,1H),7.12(d,J=8.4Hz,1H),7.22(d,J=7.8Hz,2H),7.35(d,J=7.8Hz,2H),7.37(dd,J=8.4,1.8Hz,1H),7.40-7.50(m,3H),7.59(d,J=1.8Hz,1H) IR(KBr)1523,1490,1370,1181,1115,971,868,806cm^{-1}
I-466	m.p.109-112℃ ^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.82(s,3H),3.79(s,6H),4.62(d,J=6.9Hz,2H),5.26(d,J=3.9Hz,1H),5.52(t,J=6.9Hz,1H),5.72(s,1H),6.91(s,1H),6.93(d,J=8.6Hz,1H),6.94(s,1H),7.04(t,J=8.7Hz,1H),7.07(dd,J=8.6,2.1Hz,1H),7.19(d,J=2.1Hz,1H),7.25(ddd,J=8.7,1.8,0.9Hz,1H),7.37(dd,J=12.0,1.8Hz,1H) IR($CHCl_3$)3578,3542,1526,1495,1280,1055,1035cm^{-1}

Table 95

I-467	amorphous ^{1}HNMR($CDCl_3$) δ 2.39(s,3H),3.79(s,6H),5.11(s,2H),5.40(brs,1H),5.73(s,1H),6.91(s,1H),6.94(s,1H),6.99(d,J=8.4Hz,1H),7.04(t,J=8.7Hz,1H),7.08(dd,J=8.4,2.1Hz,1H),7.21(d,J=2.1Hz,1H),7.23(d,J=7.7Hz,2H),7.25(ddd,J=8.7,2.1,1.2Hz,1H),7.34(d,J=7.7Hz,2H),7.37(dd,J=11.7,2.1Hz,1H) IR($CHCl_3$)3577,3545,1526,1495,1280,1055,1035,868cm^{-1}
I-468	amorphous ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.75(s,3H),2.53(q,J=7.0Hz,2H),3.78(s,3H),3.79(s,3H),4.07(t,J=7.2Hz,2H),5.22(t,J=7.0Hz,1H),5.27(d,J=3.9Hz,1H),5.71(s,1H),6.91(s,1H),6.91(d,J=8.6Hz,1H),6.94(s,1H),7.04(t,J=8.4Hz,1H),7.06(dd,J=8.6,2.1Hz,1H),7.19(d,J=2.1Hz,1H),7.25(ddd,J=8.4,1.9,1.1Hz,1H),7.37(dd,J=12.0,1.9Hz,1H) IR($CHCl_3$)3578,1526,1495,1280,1055,1035cm^{-1}
I-469	m.p.190-191℃ ^{1}HNMR($CDCl_3$) δ 2.38(s,3H),3.11(s,3H),3.19(s,3H),3.80(s,6H),5.13(s,2H),6.92(s,1H),6.94(s,1H),7.12(d,J=8.7Hz,1H),7.22(d,J=7.8Hz,1H),7.32-7.37(m,4H),7.49(dd,J=2.1,8.4Hz,1H),7.59(d,J=1.8Hz,1H),7.60-7.65(m,2H) IR(KBr)3600-2800(br),1521,1492,1468,1386,1366,1336,1292,1272,1259,1202,1174,1150,1113cm^{-1}
I-470	m.p.147-148℃ ^{1}HNMR($CDCl_3$) δ 2.37(s,3H),3.19(s,3H),3.79(s,3H),3.80(s,3H),5.16(s,2H),6.92(s,1H),6.93(s,1H),7.06(t,J=8.7Hz,1H),7.20-7.27(m,3H),7.32-7.41(m,5H),7.60-7.64(m,2H) IR(KBr)3600-2800(br),1523,1492,1462,1454,1379,1359,1299,1278,1264,1210,1175,1151,1129,1054,1031,1009cm^{-1}
I-471	m.p.170-172℃ ^{1}HNMR($CDCl_3$) δ 3.19(s,3H),3.24(s,3H),3.79(s,3H),3.80(s,3H),5.12(s,2H),6.92(s,1H),6.94(s,1H),7.11(d,J=8.7Hz,1H),7.26-7.30(m,2H),7.32-7.37(m,2H),7.47(dd,J=2.4,8.4Hz,1H),7.61-7.64(m,3H),7.74-7.80(m,1H),8.61-8.63(m,1H) IR(KBr)3600-2800(br),1522,1491,1462,1361,1296,1264,1212,1177,1149,1115,1030cm^{-1}

Table 96

I-472	m.p.174-175℃ ^{1}HNMR($CDCl_3$) δ 3.19(s,3H),3.79(s,3H),3.80(s,3H),5.33(s,2H),6.92(s,1H),6.93(s,1H),7.07(d,J=8.7Hz,1H),7.23-7.28(m,2H),7.32-7.37(m,2H),7.41(dd,J=1.8,12.6Hz,1H),7.60-7.64(m,3H),7.73-7.79(m,1H),8.60-8.63(m,1H) IR(KBr)3600-2800(br),1524,1491,1464,1380,1361,1302,1267,1209,1172,1149,1130,1034,1024,1008cm^{-1}
I-473	m.p.118.5-119.5℃ ^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.80(d,J=0.9Hz,3H),3.78(s,3H),3.79(s,3H),4.63(d,J=6.9Hz,2H),5.52-5.57(m,1H),6.73-6.78(m,2H),6.91(s,1H),6.93(s,1H),7.02(t,J=8.7Hz,1H),7.25-7.30(m,1H),7.35-7.43(m,3H) IR(KBr)3600-2800(br),1625,1527,1491,1461,1449,1378,1298,1279,1259,1207,1184,1125,1055,1031cm^{-1}
I-474	m.p.156-158℃ ^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.81(s,3H),3.08(s,3H),3.80(s,3H),3.81(s,3H),4.64(d,J=6.6Hz,2H),5.52-5.58(m,1H),6.43(brs,1H),6.93(s,1H),6.94(s,1H),7.03(t,J=8.4Hz,1H),7.26-7.30(m,3H),7.37(dd,J=1.8,12.6Hz,1H),7.57-7.61(m,2H) IR(KBr)3600-2800(br),1526,1495,1463,1382,1325,1300,1267,1210,1156,1139,1129,1054,1032cm^{-1}
I-475	m.p.158-160℃ ^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.81(s,3H),3.80(s,6H),4.64(d,J=6.6Hz,2H),4.73(brs,2H),5.53-5.57(m,1H),6.51(brs,1H),6.93(s,1H),6.94(s,1H),7.03(t,J=8.7Hz,1H),7.26-7.31(m,3H),7.37(dd,J=2.1,12.6Hz,1H),7.57-7.61(m,2H) IR(KBr)3600-2800(br),1527,1495,1462,1395,1326,1299,1264,1208,1170,1130,1054,1031cm^{-1}
I-476	m.p.138-140℃ ^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.81(s,3H),2.21(s,3H),3.78(s,3H),3.80(s,3H),4.63(d,J=6.9Hz,2H),5.53-5.57(m,1H),6.93(s,1H),6.94(s,1H),7.03(t,J=8.4Hz,1H),7.20(brs,1H),7.26-7.30(m,1H),7.37(dd,J=2.1,12.6Hz,1H),7.56(m,4H) IR(KBr)3600-2800(br),1666,1604,1527,1494,1463,1448,1379,1317,1299,1264,1209,1130,1055,1032cm^{-1}

Table 97

I-477	m.p.200-202℃ ^{1}HNMR($CDCl_3$+CD_3OD) δ 1.77(s,3H),1.81(s,3H),3.79(s,3H),3.80(s,3H),4.64(d,J=6.6Hz,2H),5.52-5.57(m,1H),6.93(s,1H),6.94(s,1H),7.03(t,J=9.0Hz,1H),7.27-7.30(m,1H),7.34-7.41(m,3H),7.52-7.55(m,2H) IR(KBr)3600-2800(br),2404,1684,1660,1584,1528,1493,1462,1386,1301,1274,1263,1209,1132,1053,1029cm^{-1}
I-478	m.p.195-196.5℃ ^{1}HNMR($CDCl_3$) δ 1.55(s,9H),3.78(s,3H),3.79(s,3H),4.85(s,1H),6.75(brs,1H),6.88-6.92(m,2H),6.92(s,1H),6.93(s,1H),7.31-7.39(m,3H),7.45-7.49(m,2H),8.12(t,J=7.5Hz,1H) IR(KBr)3600-2800(br),1729,1590,1531,1500,1464,1394,1261,1240,1199,1156,1055,1033,1023cm^{-1}
I-479	m.p.172-174℃ ^{1}HNMR($CDCl_3$) δ 1.55(s,9H),3.19(s,3H),3.79(s,3H),3.80(s,3H),6.75(d,J=2.1Hz,1H),6.92(s,1H),6.94(s,1H),7.26-7.39(m,5H),7.60-7.65(m,2H) IR(KBr)3600-2800(br),1728,1590,1531,1513,1494,1464,1391,1367,1352,1240,1206,1179,1145,1056,1033,1024cm^{-1}
I-480	m.p.152-153℃ ^{1}HNMR($CDCl_3$) δ 1.74(s,3H),1.77(s,3H),3.18(s,3H),3.78(d,J=9.9Hz,2H),3.79(s,6H),3.93(brs,1H),5.35-5.40(m,1H),6.75(t,J=8.4Hz,1H),6.91(s,1H),6.95(s,1H),7.24-7.36(m,4H),7.60-7.65(m,2H) IR(KBr)3600-2800(br),1630,1530,1488,1466,1380,1366,1346,1259,1213,1176,1149,1124,1054,1027cm^{-1}
I-481	foam ^{1}HNMR($CDCl_3$) δ 2.40(s,3H),3.19(s,3H),3.77(s,3H),3.78(s,3H),6.80(t,d=2.4Hz,1H),6.90(s,1H),6.91(s,1H),7.25-7.36(m,6H),7.58-7.65(m,3H),7.72-7.76(m,2H) IR(KBr)3600-2800(br),1522,1490,1366,1342,1211,1164,1151,1091,1053,1030cm^{-1}

Table 98

I-482	m.p.201-203℃ ^{1}HNMR(CDCl$_3$) δ 2.45(s,3H),3.20(s,3H),3.82(s,6H),6.95(s,1H),6.98(s,1H),7.32-7.48(m,6H),7.61-7.66(m,2H),7.80-7.84(m,2H),8.10(d,J=3.3Hz,1H),8.55(d,J=8.4Hz,1H) IR(KBr)3600-2800(br),1671,1592,1524,1494,1388,1366,1328,1265,1207,1172,1150,1052,1024cm^{-1}
I-483	m.p.132-134℃ ^{1}HNMR(CDCl$_3$) δ 1.55(s,9H),3.00(s,6H),3.79(s,6H),6.73(d,J=2.4Hz,1H),6.81(m,2H),6.92(s,1H),6.96(s,1H),7.32-7.39(m,2H),7.48-7.52(m,2H),8.11(t,J=8.1Hz,1H) IR(KBr)3600-2800(br),1728,1610,1591,1533,1499,1459,1446,1381,1365,1238,1206,1159,1055,1030cm^{-1}
I-484	foam ^{1}HNMR(CDCl$_3$) δ 1.74(s,3H),1.77(s,3H),3.00(s,6H),3.78(d,J=9.6Hz,1H),3.78(s,3H),3.79(s,3H),5.34-5.38(m,1H),6.75(t,J=8.4Hz,1H),6.92(s,1H),6.94(s,1H),6.93-6.95(m,1H),7.23-7.32(m,3H),7.48-7.52(m,2H) IR(KBr)3600-2800(br),1625,1611,1531,1494,1446,1380,1340,1257,1207,1123,1055,1032cm^{-1}
I-485	foam ^{1}HNMR(CDCl$_3$) δ 2.40(s,3H),3.00(s,6H),3.76(s,3H),3.77(s,3H),6.70(t,J=2.4Hz,1H),6.80(t,J=8.7Hz,2H),6.87(s,1H),6.94(s,1H),7.24-7.33(m,4H),7.46-7.50(m,2H),7.60(t,J=9.0Hz,1H),7.71-7.75(m,2H) IR(KBr)3600-2800(br),1609,1529,1493,1446,1381,1340,1208,1164,1090,1054,1031cm^{-1}
I-486	m.p.184-186℃ ^{1}HNMR(CDCl$_3$) δ 2.45(s,3H),3.01(s,6H),3.80(s,3H),3.81(s,3H),6.82(d,J=7.5Hz,2H),6.95(s,1H),6.98(s,1H),7.32(d,J=8.1Hz,2H),7.40-7.52(m,4H),7.80-7.84(m,2H),8.08(d,J=2.7Hz,1H),8.52(t,J=8.4Hz,1H) IR(KBr)3600-2800(br),1647,1608,1530,1497,1379,1365,1284,1267,1206,1051,1030cm^{-1}

Table 99

I-487	foam ^{1}HNMR($CDCl_3$) δ 2.36(s,3H),3.77(s,6H),4.81(brs,1H),6.69(dd,J=0.9,3.6Hz,1H),6.88-6.92(m,2H),6.94(s,1H),6.95(s,1H),7.23-7.26(m,2H),7.46-7.51(m,2H),7.53(dd,J=1.5,8.4Hz,1H),7.59(d,J=3.6Hz,1H),7.73(d,J=0.9Hz,1H),7.80-7.84(m,2H),8.02(d,J=8.4Hz,1H) IR(KBr)3600-2800(br),1611,1594,1520,1498,1459,1444,1369,1259,1208,1170,1129,1092,1051,1028cm^{-1}
I-488	m.p.219-220℃ ^{1}HNMR($CDCl_3$) δ 2.37(s,3H),3.19(s,3H),3.78(s,3H),3.79(s,3H),6.70(dd,J=0.9,3.6Hz,1H),6.94(s,1H),6.97(s,1H),7.24-7.27(m,2H),7.32-7.37(m,2H),7.53(dd,J=1.8,8.7Hz,1H),7.60(d,J=3.6Hz,1H),7.61-7.66(m,2H),7.73(d,J=0.9Hz,1H),7.80-7.84(m,2H),8.03(d,J=8.7Hz,1H) IR(KBr)3600-2800(br),1513,1494,1464,1444,1373,1209,1173,1155,1122,1049cm^{-1}
I-489	^{1}HNMR($CDCl_3$) δ 3.79(s,3H),3.80(s,3H),3.94(s,3H),5.17(s,2H),5.71(s,1H),6.96(s,1H),6.97(s,1H),6.99(d,J=8.7Hz,1H),7.09(d.d,J=8.7&2.4Hz,1H),7.22(d,J=2.4Hz),7.26(s,1H),7.32-7.49(m,5H),7.66(d,J=8.7Hz,2H),8.09(d,J=8.7Hz,2H) IR(KBr)3383,1702,1606,1489,1381,1291,1206,1111,1032,1002cm^{-1}
I-490	^{1}HNMR($CDCl_3$) δ 3.12(s,3H),3.79(s,3H),3.81(s,3H),395(s,3H),5.18(s,2H),6.96(s,2H),7.12(d,J=8.4Hz,1H),7.31-7.53(m,6H),7.60(d,J=2.1Hz,1H),7.65(d,J=8.7Hz,2H),8.10(d,J=8.7Hz,2H) IR(KBr)1720,1607,1492,1362,1275,1211,1112,1057,1032cm^{-1}
I-491	^{1}HNMR($CDCl_3$) δ 3.12(s,3H),3.80(s,3H),3.81(s,3H),5.18(s,2H),6.92(s,1H),6.96(s,1H),7.13(d,J=8.4Hz,1H),7.31-7.52(m,6H),7.70(d,J=2.1Hz,1H),7.66-7.77(m,4H) IR(KBr)3433,1685,1606,1509,1492,1372,1318,1264,1211,1183,1111,1055,1031cm^{-1}
I-492	^{1}HNMR($CDCl_3$) δ 3.79(s,3H),3.80(s,3H),5.17(s,2H),5.71(s,2H),6.91(s,1H),6.97(s,1H),7.00(d,J=8.4Hz,1H),7.08(dd,J=8.4&2.4Hz,1H),7.22(d,J=2.4Hz,1H),7.32-7.49(m,5H),7.70(s,4H) IR(KBr)3291,2242,1607,1579,1488,1384,1324,1272,1209,1130,1054,1034,1001cm^{-1}

Table 100

I-493	^{1}HNMR($CDCl_3$) δ 3.12(s,3H),3.80(s,3H),3.81(s,3H),5.18(s,2H),6.92(s,1H),6.96(s,1H),7.12(d,J=8.4Hz,1H),7.31-7.72(m,6H),7.60(d,J=1.8Hz,1H),7.65-7.74(m,4H) IR(KBr)2223,1604,1490,1363,1296,1264,1213,1172,1117,1055,1036,1026cm^{-1}
I-494	^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.81(s,3H),3.23(s,3H),3.80(s,3H),3.81(s,3H),3.95(s,3H),4.64(d,J=6.6Hz,2H),5.51(t,J=6.6Hz,1H),6.96(s,2H),7.06(d,J=8.7Hz,1H),7.50(d.d,J=8.7&2.1Hz,1H),7.59(d,J=2.1Hz,1H),7.65(d,J=8.7Hz,2H),8.10(d,J=8.7Hz,2H) IR(KBr)1720,1608,1508,1492,1384,1357,1273,1179,1110,1026,1019cm^{-1}
I-495	^{1}HNMR($CDCl_3$) δ 2.38(s,3H),3.12(s,3H),3.80(s,6H),3.81(s,3H),3.95(s,3H),5.14(s,2H),6.96(s,2H),7.13(d,J=8.4Hz,1H),7.21(d,J=7.8Hz,2H),7.35(d,J=7.8Hz,2H),7.49(d.d,J=8.4&1.8Hz,1H),7.60(d,J=1.8Hz,1H),7.65(d,J=8.7Hz,2H),8.10(d,J=8.7Hz,2H) IR(KBr)1697,1607,1492,1364,1286,1263,1213,1178,11115,1057,1030cm^{-1}
I-496	IR(KBr)1730,1701,1610,1515,1465,1359,1238,1186,1116,1082,1064,1016cm^{-1}
I-497	^{1}HNMR($CDCl_3$) δ 1.75(s,3H),1.80(s,3H),2.89(s,6H),3.21(s,3H),3.44(s,3H),3.68(s,3H),3.77(s,1H),4.61(d,J=8.4Hz,2H),5.49(t,J=8.4Hz,1H),6.92(s,1H),7.01(d,J=8.4Hz,1H),7.25-7.28(m,3H),7.33(d,J=2.1Hz,1H),7.52(dd,J=8.4&1.8Hz,1H),7.66(d,J=2.4Hz,1H) IR(KBr)1727,1598,1515,1467,1360,1295,1258,1241,1116,1084cm^{-1}
I-498	^{1}HNMR($CDCl_3$) δ 2.38(s,3H),2.89(s,6H),3.10(s,3H),3.44(s,3H),3.66(s,3H),3.77(s,3H),5.11(s,3H),6.93(s,1H),7.06-7.15(m,2H),7.17-7.29(m,4H),7.31-7.37(m,3H),7.53(d.d,J=8.7&1.8Hz,1H),7.66(dJ=1.8Hz,1H) IR(KBr)1732,1701,1598,1518,1466,1352,1294,1121,1085,1060,1015cm^{-1}
I-499	^{1}HNMR($CDCl_3$) δ 2.88(s,6H),3.44(s,3H),3.64(s,3H),3.77(s,3H),5.17(s,2H),5.65(s,1H),6.84(dd,J=8.1&2.1Hz,1H),6.92(s,1H),6.95(d,J=8.1Hz,1H),7.01(d,J=2.1Hz,1H),7.12(d,J=8.4Hz,1H),7.31-7.46(m,6H),7.53(d.d,J=8.4&1.8Hz,1H),7.66(d,J=1.8Hz,1H) IR(KBr)3526,3434,1732,1598,1515,1460,1344,1260,1240,1222,1061,1013cm^{-1}

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I-500	^{1}HNMR($CDCl_3$) δ 2.60(s,3H),3.43(s,3H),3.72(s,3H),3.75(s,3H),5.17(s,2H),5.67(s,1H),6.77(s,1H),6.94(dd,J=8.4&1.8Hz,1H),7.02(d,J=8.4Hz,1H),7.06(d,J=1.8Hz,1H),7.32-7.50(m,7H),7.53-7.62(m,1H),7.94(d,J=7.8Hz,1H) IR(KBr)1732,1719,1585,1521,1481,1403,1352,1289,1253,1225,1172,1073,1012cm^{-1}
I-501	^{1}HNMR($CDCl_3$) δ 2.73(s,3H),3.12(s,3H),3.43(s,3H),3.72(s,3H),3.76(s,3H),5.19(s,2H),6.78(s,1H),7.15(d,J=8.4Hz,1H),7.31-7.63(m,10H),9.96(d,J=6.6Hz,1H) IR(KBr)1726,1609,1520,1480,1400,1371,1294,1262,1179,1075,1009cm^{-1}
I-502	^{1}HNMR($CDCl_3$) δ 1.78(s,3H),1.81(s,3H),3.22(s,3H),3.48(s,3H),3.71(s,3H),3.77(s,3H)),3.82(s,3H),4.66(d,J=6.9Hz,2H),5.56(t,J=6.9Hz,1H),6.62(s,1H),6.70(s,1H),7.11(s,1H),7.38(d,J=8.7Hz,1H),7.69(d,J=8.7Hz,1H) IR(KBr)1699,1607,1587,1516,1468,1354,1216,1152,1067,1044,1004cm^{-1}
I-503	^{1}HNMR($CDCl_3$) δ 1.78(s,3H),1.81(s,3H),3.21(s,3H),3.48(s,3H),3.72(s,3H),3.74(s,3H),3.82(s,3H),4.33(d,J=11.7Hz,1H),4.54(d,J=11.7Hz,1H),4.65(d,J=8.4Hz,1H),5.57(t,J=8.4Hz,1H),6.68(s,1H),6.69(s,1H),6.89(s,1H),7.38(d,J=8.7Hz,2H),7.73(d,J=8.7Hz,2H) IR(KBr)3530,1609,1515,1467,1356,1214,1174,1151,1075,1039,1004cm^{-1}
I-504	^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.80(s,3H),3.22(s,3H),3.45(s,3H),3.75(s,3H),3.77(s,3H),3.81(s,3H),4.62(d,J=6.9Hz,2H),5.55(t,J=6.9Hz,1H),6.64(s,1H),6.77(s,1H),6.97(s,1H),7.39(d,J=8.7Hz,2H),7.72(d,J=8.7Hz,2H) IR(KBr)3431,1735,1706,1609,1514,1474,1367,1206,1176,1150,1055,1039cm^{-1}
I-505	^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.80(s,3H),2.94(broad,1H),3.47(s,3H),3.72(s,3H),3.73(s,3H),3.81(s,3H),4.32(s,1H),4.36(s,1H),4.65(d,J=6.6Hz,2H),5.34(s,1H),5.57(t,J=6.6Hz,1H),6.69(s,1H),6.70(s,1H),6.89(s,1H),6.91(d,J=8.1Hz,2H),7.55(d,J=8.1Hz,2H) IR(KBr)3466,1610,1517,1475,1463,1386,1265,1215,1170,1147,1075,1042,1007cm^{-1}
I-506	^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.79(s,3H),3.44(s,3H),3.74(s,3H),3.76(s,3H),3.80(s,3H),4.63(d,J=7.2Hz,2H),5.30(s,1H),5.49-5.60 (m, 1H), 6.63(s,1H),6.78(s,1H),6.94(d,J=8.7Hz,2H),6.97(s,1H),7.54(.d,J=8.7Hz,2H) IR(KBr)3382,1726,1699,1611,1519,1470,1206,1174,1143,1074,1056,997cm^{-1}

Table 102

I-507	^{1}HNMR($CDCl_3$) δ 1.77(s,3H), 1.79(s,3H), 3.41(s,3H), 3.60(s,3H), 3.74(s,3H), 3.77(s,3H), 3.81(s,3H), 4.63(d,J=6.9Hz,2H), 4.74-5.02 (broad, 1H), 5.52-5.60(m,1H),6.63(s,1H),6.75(s,1H),6.91(d,J=8.7Hz,2H),6.94(s,1H),7.54(d,J=8.7Hz,2H) IR(KBr)3423,1734,1612,1520,1475,1441,1395,1337,1267,1215,1173,1140,1017,cm^{-1}
I-508	^{1}HNMR($CDCl_3$) δ 3.21(s,3H),3.45(s,3H),3.73(s,3H),4.41-4.62(m,2H),5.16(s,2H),5.71(s,1H),6.79(d.d,J=8.1&2.1Hz,1H),6.84(s,1H),6.92(d,J=2.1Hz,1H),7.01(d,J=8.1Hz,1H),7.32-7.50(m,7H),7.71(d,J=8.4Hz,2H) IR(KBr)3496,3255,1607,1590,1528,1473,1464,1358,1247,1147,1071,1017cm^{-1}
I-509	^{1}HNMR($CDCl_3$) δ 3.21(s,3H),3.45(s,3H),3.73(s,3H),3.89(s,3H),4.51(d,J=6.3Hz,2H),5.20(s,2H),6.80(d.d,J=8.1&2.1Hz,1H),6.85(s,1H),6.89(d,J=2.1Hz,1H),6.97(d,J=8.1Hz,1H),7.29-7.51(m,7H),7.71(d,J=8.7Hz,2H) IR(KBr)3412,1603,1586,1515,1464,1364,1242,1175,1151,1081,1020,1006cm^{-1}
I-510	^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.80(s,3H),3.22(s,3H),3.45(s,3H),3.73(s,3H),3.87(s,3H),4.52(s,2H),4.64(d,J=6.6Hz,2H),5.57(t,J=6.6Hz,1H),6.83(dd,J=7.5&1.2Hz,1H),6.86(d,J=1.2Hz,1H),6.96(d,J=7.5Hz,1H) IR(KBr)3433,1598,1579,1517,1469,1372,1244,1221,1174,1149,1072,1017cm^{-1}
I-511	^{1}HNMR($CDCl_3$) δ 2.36(s,3H),3.21(s,3H),3.45(s,3H),3.72(s,3H),3.88(s,3H),4.50(s,2H),5.16(s,2H),6.80(dd,J=8.1&2.1Hz,1H),6.85(s,1H),6.88(d,J=2.1Hz,1H),6.97(d,J=8.1Hz,1H),7.20(d,J=8.4Hz,2H),7.33-7.42(m,4H),7.71(d,J=8.4Hz,2H) IR(KBr)3502,1604,1510,1465,1383,1360,1266,1239,1227,1147,1071,1008cm^{-1}
I-512	^{1}HNMR($CDCl_3$) δ 3.45(s,3H), 3.72(s,3H), 3.89(s,3H), 4.48(s,2H), 5.20(s,2H), 6.81(dd, J=8.1&2.1Hz,1H), 6.86(s,1H),6.88-6.99 (m, 4H), 7.27-7.43 (m,3H), 7.46-7.54(m,4H) IR(KBr)3528,1610,1591,1517,1474,1461,1438,1388,1263,1239,1173,1140,1017,cm^{-1}
I-513	^{1}HNMR($CDCl_3$) δ 1.75(s,3H),1.79(s,3H),2.47(broads,1H),3.45(s,3H),3.73(s,3H),3.86(s,3H),4.52(s,2H),4.63(d,J=6.6Hz,2H),5.16(s,1H),5.56(d,J=6.6Hz,1H),6.82-6.97(m,6H),7.53(d,J=9.0Hz,2H) IR(KBr)3477,3246,1609,1586,1518,1464,1439,1387,1266,1240,1221,1173,1141,1079,1011,1002cm^{-1}

Table 103

I-514	^{1}HNMR($CDCl_3$) δ 2.36(s,3H), 2.48(broad,1H), 3.44(s,3H), 3.72(s,3H), 3.88(s,3H), 4.50(s,2H), 5.16(s,3H), 6.76-6.98(m,6H), 7.19 (d, J=7.8Hz, 2H), 7.36(d,J=7.8Hz,2H),7.52(d,J=8.7Hz,2H) IR(KBr)3544,3239,1614,1593,1519,1463,1386,1266,1240,1218,1173,1139,1074,1010cm^{-1}
I-515	m.p.159-160℃ ^{1}HNMR($CDCl_3$) δ 3.19(s,3H),3.34(s,3H),3.79(s,3H),3.80(s,3H),5.18(ABq,J=12.3Hz,2H),6.92(s,1H),6.93(s,1H),7.08(d,J=8.7Hz,1H),7.33-7..64(m,11H) IR(KBr)3433,2937,1694,1520,1492,1369,1288,1243,1211,1176,1150,1100cm^{-1}
I-516	^{1}HNMR($CDCl_3$) δ 2.91(s,3H),3.777(s,3H),3.783(s,3H),4.85(brs,1H),5.12(s,2H),6.87-7.00(m,7H),7.32-7.50(m,7H) IR(KBr)3432,2938,1609,1590,1525,1494,1380,1254,1207,1174,1152,1058,1031cm^{-1}
I-517	m.p.213-215℃ ^{1}HNMR($CDCl_3$) δ 2.99(s,3H),3.779(s,3H),3.804(s,3H),4.86(brs,1H),5.16(s,2H),6.83(brs,1H),6.93(s,1H),6.94(s,1H),7.06(d,J=8.7Hz,1H),7.35(dd,J=2.1,8.7Hz,1H),7.41-7.49(m,7H),7.81(d,J=2.1Hz,.1H) IR(KBr)3409,3374,1610,1525,1491,1371,1321,1251,1208,1145,1120,1037cm^{-1}
I-518	powder ^{1}HNMR($CDCl_3$) δ 1.75(s,3H),1.81(s,3H),2.84(s,3H),3.21(s,3H),3.22(s,3H),3.55(s,3H),3.79(s,3H),3.93(s,3H),4.67(d,J=7.2Hz,2H),5.59(m,1H),6.85(s,1H),7.36-7.42(m,2H),7.62(d,J=2.1Hz,1H),7.65-7.70(m,2H),7.86(d,J=2.1Hz,1H) IR($CHCl_3$)3026,2940,1728,1510,1473,1373,1179,1150,1086cm^{-1}
I-519	powder ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.74(s,3H),2.52-2.61(m,2H),2.86(s,3H),3.20(s,3H),3.21(s,3H),3.55(s,3H),3.79(s,3H),3.93(s,3H),4.21(t,J=6.9Hz,2H),5.26(m,1H),6.86(s,1H),7.36-7.42(m,2H),7.62(d,J=2.1Hz,1H),7.65-7.70(m,2H),7.86(d,J=2.1Hz,1H) IR($CHCl_3$)3024,2939,1729,1511,1475,1447,1373,1179,1150,1085cm^{-1}

Table 104

I-520	powder ^{1}HNMR(CDCl$_3$) δ 2.84(s,3H),3.21(s,3H),3.22(s,3H),3.56(s,3H),3.81(s,3H),3.88(s,3H),5.30(s,2H),6.86(s,1H),7.26-7.32(m,1H),7.37-7.42(m,2H),7.65-7.72(m,4H),7.76-7.83(m,1H),7.92(d,J=2.1Hz,1H),8.60-8.63(m,1H) IR(KBr)3434,3019,2940,1730,1511,1474,1367,1178,1151,1082cm^{-1}
I-521	powder ^{1}HNMR(CDCl$_3$+CD$_3$OD) δ 1.69(s,3H),1.77(s,3H),2.51-2.58(m,2H),3.43(s,3H),3.73(s,3H),4.23(t,J=6.6Hz,2H),6.44(s,1H),6.89-6.95(m,2H),7.24(d,J=1.8Hz,1H),7.46-7.52(m,2H),7.65-7.67(m,1H) IR(KBr)3434,2934,1716,1611,1402,1226,1116,1082,1027cm^{-1}
I-522	m.p.240-243℃ ^{1}HNMR(CDCl$_3$+CD$_3$OD) δ 3.44(s,3H),3.75(s,3H),5.31(s,2H),6.46(s,1H),6.89-6.95(m,2H),7.30-7.31(m,1H),7.35-7.42(m,2H),7.47-7.53(m,2H),7.56(d,J=2.4Hz,1H),7.79-7.86(m,1H),8.65-8.68(m,1H) IR(KBr)3411,2937,1683,1611,1521,1406,1230,1115,1082,1026cm^{-1}
I-523	m.p.136-137℃ ^{1}HNMR(CDCl$_3$) δ 2.25(s,3H),2.29(s,3H),3.12(s,3H),3.20(s,3H),5.18(s,2H),7.11(s,1H),7.14(s,1H),7.23-7.51(m,12H) IR(KBr)1518,1488,1357,1263,1170,1150,1110,970,873,848,809cm^{-1}
I-524	m.p.121-122℃ ^{1}HNMR(CDCl$_3$) δ 1.77(s,3H),1.82(s,3H),2.25(s,3H),2.29(s,3H),3.20(s,3H),3.23(s,3H),4.64(d,J=6.6Hz,2H),5.52(t,J=6.6Hz,1H),7.06(d,J=8.4Hz,1H),7.11(s,1H),7.14(s,1H),7.24(d,J=2.1Hz,1H),7.31-7.45(m,5H) IR(KBr)1518,1487,1363,1170,1150,1108,970,869,848,808cm^{-1}
I-525	m.p.149-151℃ ^{1}HNMR(CDCl$_3$) δ 1.77(s,3H),1.83(d,J=0.6Hz,3H),2.26(s,3H),2.28(s,3H),4.62(d,J=6.9Hz,2H),4.80(s,1H),5.53(m,1H),5.72(s,1H),6.82(dd,J=2.1,8.4Hz,1H),6.85-6.94(m,3H),6.96(d,J=2.1Hz,1H),7.10(s,1H),7.12(s,1H),7.21-7.28(m,2H) IR(KBr)3521,3395,1612,1584,1522,1490,1457,1285,1263,1242,1200,1170,1125,1014,834cm^{-1}

Table 105

I-526	foam ^{1}HNMR($CDCl_3$) δ 2.43(s,3H),2.76(s,3H),2.90(s,3H),3.22(s,3H),3.56(s,3H),3.80(s,3H),5.30(s,2H),6.28(t,J=3.3Hz,1H),6.42(dd,J=3.3,1.6Hz,1H),6.85(s,1H),7.12,(d,J=8.4Hz,1H),7.32(d,J=8.7Hz,2H),7.34~7.37(m,2H),7.39(d,J=8.7Hz,2H),7.40(d,J=1.8Hz,1H),7.69(d,J=8.7Hz,2H),7.78(d,J=8.7Hz,2H) IR(Nujol)1608,1597,1519,1480,1464,1176,1152,1087,972,875,817,798cm^{-1}
I-527	foam ^{1}HNMR($CDCl_3$) δ 2.96(s,3H),3.21(s,3H),3.37(s,3H),3.52(s,3H),3.77(s,3H),5.58(s,2H),6.84(s,1H),7.19(d,J=8.4Hz,1H),7.24~7.28(m,4H),7.31,(dd,J=8.4,1.8Hz,1H),7.33(d,J=1.8Hz,1H),7.38(d,J=8.7Hz,2H),7.67(d,J=8.7Hz,2H) IR(Nujol)1664,1609,1519,1480,1457,1176,1151,1079,970,947,876,798,748cm^{-1}
I-528	foam ^{1}HNMR($CDCl_3$) δ 2.73(s,3H),2.94(s,3H),3.21(s,3H),3.33(t,J=6.3Hz,2H),3.55(s,3H),3.77(s,3H),4.55(t,J=6.3Hz,2H),6.83(s,1H),7.14(d,J=8.1Hz,1H),7.18(brdd,J=7.8,5.1Hz,1H),7.33(brd,J=7.8Hz,1H),7.35(dd,J=8.1,1.8Hz,1H),7.37(d,J=1.8Hz,1H),7.38(d,J=8.7Hz,2H),7.65(m,1H),7.67(d,J=8.7Hz,2H),8.56(brd,J=5.1Hz,1H) IR(Nujol)1608,1593,1520,1479,1466,1177,1151,1079,970,872,816,798cm^{-1}
I-529	m.p.203-205℃ HNMR(DMSO-d_6) δ 2.42(s,3H),2.80(s,3H),3.45(s,3H),3.51(s,3H),3.56(s,3H),3.78(s,3H),5.36(s,2H),7.07(s,1H),7.23(s,1H),7.26~7.28(m,3H),7.48,(d,J=8.7Hz,2H),7.74(d,J=8.7Hz,2H) IR(Nujol)1599,1518,1480,1466,1176,1081,1013,976,870,830,797,755cm^{-1}
I-530	foam ^{1}HNMR(CD_3OD) δ 3.38(s,3H),3.68(s,3H),5.41(s,2H),6.44(s,1H),6.82(dd,J=8.4,2.1Hz,1H),6.85(d,J=8.7Hz,2H),6.93(d,J=2.1Hz,1H),7.06(d,J=8.4Hz,1H),7.27(m,2H),7.46(d,J=8.7Hz,2H),7.60(m,2H) IR(Nujol)3304,161,1590,1522,1488,1458,1254,1115,1074,1046,1014,942,825,745cm^{-1}

Table 106

I-531	m.p.159-162℃ ^{1}HNMR(DMSO-d_6) δ 2.92(s,3H),3.41(s,3H),3.45(s,3H),3.52(s,3H),3.79(s,3H),5.33(s,2H),7.09(s,1H),6.82～7.45(m,3H),7.49(d,J=9.0Hz,2H),7.75(d,J=9.0Hz,2H) IR(Nujol)1604,1519,1481,1469,1235,1171,1154,1085,1012,967,874,849,798cm^{-1}
I-532	m.p.214-216℃ ^{1}HNMR(DMSO-d_6) δ 2.84(s,3H),3.42(s,3H),3.45(s,3H),3.52(s,3H),3.73(s,3H),3.79(s,3H),4.99(s,2H),7.08(s,1H),7.24(dJ=9.3Hz,1H),7.29(dd,J=9.3,1.8Hz,1H),7.30(d,J=1.8Hz,1H),7.48(d,J=8.7Hz,2H),7.74(d,J=8.7Hz,2H) IR(Nujol)1767,1606,1521,1481,1463,1216,1175,1151,1080,1013,977,946,878,821,798cm^{-1}
I-533	m.p.225-227℃ ^{1}HNMR(DMSO-d_6) δ 2.86(s,3H),3.45(s,3H),3.46(s,3H),3.52(s,3H),3.78(s,3H),4.46(s,2H),7.08(s,1H),7.20(d,J=8.4Hz,1H),7.28-7.32(m,2H),7.48(d,J=8.7Hz,2H),7.74(d,J=8.7Hz,2H) IR(Nujol)3340,1677,1619,1519,1477,1463,1443,1176,1150,1088,971,871,829,794cm^{-1}
I-534	foam ^{1}HNMR(DMSO-d_6) δ 2.96(s,3H),3.45(s,3H),3.47(s,3H),3.52(s,3H),3.79(s,3H),4.64(s,2H),7.08(s,1H),7.18(d,J=8.4Hz,1H),7.31(dd,J=8.4,1.8Hz,1H),7.34(d,J=1.8Hz,1H),7.48(d,J=8.7Hz,2H),7.74(d,J=8.7Hz,2H) IR(Nujol)3464,3362,1693,1606,1520,1481,1176,1151,1080,876,822,799cm^{-1}
I-535	m.p.163-165℃ ^{1}HNMR($CDCl_3$) δ 2.73(s,3H),3.16(s,3H),3.21(s,3H),3.55(s,3H),3.78(s,3H),4.85(ddd,J=1.5,1.5,5.4Hz,2H),5.25(s,2H),5.31,(ddd,J=1.5,3.0,10.5,Hz,1H),5.43(ddd,J=1.5,3.0,17.1Hz,1H),6.05(ddd,J=5.4,10.5,17.1Hz,1H),6.84(s,1H),7.11(d,J=8.7Hz,1H),7.34(dd,J=2.1,8.7Hz,1H),7.38(d,J=8.4Hz,2H),7.41(d,J=2.1Hz,1H),7.56(d,J=8.4Hz,2H),7.67(d,J=8.4Hz,2H),8.11(d,J=8.4Hz,2H) IR(KBr)1718,1612,1519,1481,1365,1273,1177,1151,1119,1080,1015,969,876cm^{-1}

Table 107

I-536	m.p.115-117℃ ^{1}HNMR($CDCl_3$) δ 2.68(s,3H),3.13(s,3H),3.21(s,3H),3.55(s,3H),3.68(s,2H),3.78(s,3H),4.61(ddd,J=1.5,1.5,5.7Hz,2H),5.17(s,2H),5.23,(ddd,J=1.5,3.0,10.5,Hz,1H),5.28(ddd,J=1.5,3.0,16.8Hz,1H),5.91(ddd,J=5.7,10.5,16.8Hz,1H),6.84(s,1H),7.13(d,J=8.4Hz,1H),7.33(d,J=8.1Hz,2H),7.34(dd,J=2.1,8.4Hz,1H),7.38(d,J=8.4Hz,2H),7.40(d,J=2.1Hz,1H),7.42(d,J=8.1Hz,2H),7.68(d,J=8.4Hz,2H) IR(KBr)1734,1609,1520,1481,1365,1236,1177,1151,1119,1079,970,876,797cm^{-1}
I-537	m.p.227-229℃ ^{1}HNMR($CDCl_3$) δ 2.73(s,3H),3.16(s,3H),3.21(s,3H),3.54(s,3H),3.77(s,3H),5.26(s,2H),6.83(s,1H),7.11(d,J=12.3Hz,2H),7.32(s,1H),7.37(d,J=12.3Hz,2H),7.41(s,1H),7.57(d,J=12.3Hz,1H),7.66(d,J=12.3Hz,2H),8.13(d,J=12.3Hz,2H) IR(KBr)3430,1694,1612,1519,1481,1365,1177,1151,1079,875,798cm^{-1}
I-538	m.p.149-151℃ ^{1}HNMR($CDCl_3$) δ 2.66(s,3H),3.13(s,3H),3.21(s,3H),3.55(s,3H),3.68(s,2H),3.77(s,3H),5.17(s,2H),6.84(s,1H),7.13(d,J=8.4Hz,1H),7.30-7.55(m,4H),7.38(d,J=8.4Hz,2H),7.67(d,J=8.4Hz,2H),7.67(m,2H) IR(KBr)3423,1716,1610,1519,1481,1365,1235,1177,1151,1119,1080,876,798cm^{-1}
I-539	m.p.144-146℃ ^{1}HNMR($CDCl_3$) δ 2.32(s,3H),2.69(s,3H),3.14(s,3H),3.21(s,3H),3.56(s,3H),3.78(s,3H),5.18(s,2H),6.84(s,1H),7.14(d,J=8.7Hz,2H),7.15(d,J=8.4Hz,1H),7.34(dd,J=2.1,8.4Hz,1H),7.38(d,J=8.4Hz,2H),7.40(d,J=2.1Hz,1H),7.48(d,J=8.7Hz,2H),7.67(d,J=8.4Hz,2H) IR(KBr)1760,1519,1481,1365,1177,1151,1119,1079,876,797cm^{-1}
I-540	m.p.228-231℃ ^{1}HNMR($CDCl_3$) δ 2.81(s,3H),3.20(s,3H),3.21(s,3H),3.55(s,3H),3.78(s,3H),5.30(s,2H),6.85(s,1H),7.11(d,J=8.4Hz,1H),7.35(dd,J=2.1,8.4Hz,1H),7.39(d,J=8.4Hz,2H),7.41(d,J=2.1Hz,1H),7.67(d,J=8.4Hz,2H),7.69(d,J=8.7Hz,2H),8.28(d,J=8.7Hz,2H) IR(KBr)1608,1521,1481,1361,1179,1148,1080,880,799cm^{-1}

Table 108

I-541	m.p.153-156℃ ^{1}HNMR(CDCl$_3$) δ 1.53(s,9H),2.69(s,3H),3.15(s,3H),3.21(s,3H),3.55(s,3H),3.78(s,3H),5.19(s,2H),6.84(s,1H),7.10(dd,J=7.5,7.5Hz,1H),7.17(d,J=7.5Hz,1H),7.23(d,J=8.4Hz,1H),7.26(dd,J=7.5,7.5Hz,1H),7.33(d,J=7.5Hz,1H),7.37(dd,J=2.1,8.4Hz,1H),7.38(d,J=8.4Hz,2H),7.40(d,J=2.1Hz,1H),7.67(d,J=8.4Hz,2H) IR(KBr)3405,1724,1519,1480,1366,1236,1177,1153,1080,970,875,798cm^{-1}
I-542	m.p.178-182℃ ^{1}HNMR(CDCl$_3$) δ 2.70(s,3H),3.15(s,3H),3.21(s,3H),3.55(s,3H),3.78(s,3H),5.14(s,2H),6.76(m,2H),6.84(s,1H),7.19(m,2H),7.26(d,J=8.7Hz,1H),7.37(d,J=2.7Hz,1H),7.36(dd,J=2.7,8.7Hz,1H),7.38(d,J=8.7Hz,2H),7.68(d,J=8.7Hz,2H) IR(KBr)3448,1627,1608,1519,1497,1364,1177,1151,1079,971,876,798cm^{-1}
I-543	m.p.187-189℃ ^{1}HNMR(CDCl$_3$) δ 2.38(s,3H),3.39(s,3H),3.45(s,3H),5.11-5.14(m,3H),5.89(s,1H),6.33(s,1H),6.88-6.94(m,2H),7.20-7.36(m,6H),7.43(d,J=2.1Hz,1H),7.76(d,J=0.6Hz,1H) IR(KBr)3414,2942,1613,1534,1469,1355,1266,1172,1092,1030cm^{-1}
I-544	m.p.207-215℃(dec.) ^{1}HNMR(d6-DMSO) δ 2.37(s,3H),3.67(brs,2H),4.56(brs,2H),4.90(s,2H),6.14-6.20(m,2H),6.86(d,J=8.7Hz,2H),7.11-7.22(m,4H),7.42(d,J=8.7Hz,2H),7.52(s,1H),8.94(s,1H),9.47(s,1H) IR(KBr)3388,3301,2932,1612,1591,1521,1458,1413,1288,1030cm^{-1}
I-545	m.p.108-110℃ ^{1}HNMR(CDCl$_3$) δ 1.69(s,3H),1.74(s,3H),249-2.59(m,2H),3.03(s,3H),3.20(s,3H),3.56(s,3H),3.75(s,3H),4.06(t,J=6.6Hz,2H),4.93(s,2H),5.22(m,1H),6.66(s,1H),7.04(d,J=8.7Hz,1H),7.09-7.17(m,2H),7.37(dd,J=2.1,8.7Hz,1H),7.44(d,J=2.1Hz,1H),7.51-7.58(m,2H) IR(KBr)3434,2933,1604,1521,1473,1383,1360,1278,1160,1121,1084,1017cm^{-1}

Table 109

I-546	m.p.109-110℃ ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.75(s,3H),248-2.58(m,2H),4.07(t,J=6.6Hz,2H),5.22(m,1H),5.69(s,1H),5.87(s,1H),6.44(s,1H),6.93-6.95(m,2H),7.04-7.06(m,1H),7.10-7.18(m,2H),7.58-7.64(m,2H) IR(KBr)3411,2932,1608,1587,1522,1491,1226,1111,1074,1017cm^{-1}
I-547	m.p.141-142℃ ^{1}HNMR($CDCl_3$) δ 3.03(s,3H),3.57(s,3H),3.75(s,3H),4.90(s,2H),5.16(s,2H),5.65(brs,1H),6.66(s,1H),6.92(dd,J=1.8,8.4Hz,1H),6.99(d,J=8.4Hz,1H),7.06(d,J=1.8Hz,1H),7.10-7.17(m,2H),7.35-7.47(m,5H),7.52-7.59(m,2H) IR(KBr)3529,3439,2932,1601,1518,1477,1461,1380,1251,1224,1157,1113,1094,1076cm^{-1}
I-548	m.p.133-136℃ ^{1}HNMR($CDCl_3$) δ 2.98(s,3H),3.12(s,3H),3.56(s,3H),3.75(s,3H),4.94(s,2H),5.18(s,2H),6.67(s,1H),7.09-7.17(m,3H),7.34-7.49(m,7H),7.51-7.58(m,2H) IR(KBr)3434,2941,1598,1519,1481,1383,1365,1279,1231,1164,1099,1081cm^{-1}
I-549	m.p.161-162℃ ^{1}HNMR($CDCl_3$) δ 3.10(s,3H),3.42(s,3H),3.76(s,3H),5.17(s,2H),6.05(s,1H),6.44(s,1H),7.11-7.20(m,3H),7.33-7.50(m,7H),7.52(d,J=2.1Hz,1H),7.57-7.65(m,2H) IR(KBr)3488,2938,1613,1523,1486,1290,1223,1107,1071,1012cm^{-1}
I-550	m.p.113-115℃ ^{1}HNMR($CDCl_3$) δ 2.37(s,3H),2.98(s,3H),3.11(s,3H),3.56(s,3H),3.75(s,3H),4.93(s,2H),5.13(s,2H),6.66(s,1H),7.09-7.17(m,3H),7.18-7.23(m,2H),7.32-7.39(m,3H),7.45(d,J=1.8Hz,1H),7.51-7.58(m,2H) IR(KBr)3434,2934,1738,1601,1520,1478,1466,1376,1356,1236,1159,1109,1070,1014cm^{-1}

Table 110

I-551	m.p.138-140℃ ^{1}HNMR($CDCl_3$) δ 2.38(s,3H),3.04(s,3H),3.57(s,3H),3.74(s,3H),4.90(s,2H),5.11(s,2H),5.63(s,1H),6.66(s,1H),6.91(dd,J=2.1,8.4Hz,1H),6.99(d,J=8.4Hz,1H),7.05(d,J=1.8Hz,1H),7.08-7.17(m,2H),7.22(d,J=7.8Hz,2H),7.33(d,J=7.8Hz,2H),7.52-7.59(m,2H) IR(KBr)3446,2934,1601,1518,1476,1461,1379,1252,1224,1158,1092,1011cm^{-1}
I-552	m.p.188-190℃ ^{1}HNMR($CDCl_3$) δ 2.38(s,3H),3.10(s,3H),3.42(s,3H),3.75(s,3H),5.12(s,2H),6.04(s,1H),6.43(s,1H),7.11-7.25(m,5H),7.35(d,J=7.8Hz,2H),7.42(dd,J=2.4,8.7Hz,1H),7.51(d,J=2.4Hz,1H),7.57-7.65(m,2H) IR(KBr)3433,2963,1611,1523,1485,1355,1282,1226,1163,1106,1071cm^{-1}
I-553	m.p.149-150℃ ^{1}HNMR($CDCl_3$) δ 3.13(s,3H),3.21(s,3H),5.20(s,2H),7.17(d,J=8.4Hz,1H),7.24(m,1H),7.36-7.54(m,9H),7.58(dd,J=1.2,2.4Hz,1H),7.60-7.67(m,2H) IR(KBr)1524,1485,1354,1292,1263,1181,1150,1114,977,869,858.850,812,796 cm^{-1}
I-554	m.p.92-93℃ ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.74(d,J=1.2Hz,3H),2.25(s,3H),2.28(s,3H),2.56(dt,J=6.6,7.2Hz,2H),3.20(s,3H),3.21(s,3H),4.07(t,J=7.2Hz,2H),5.22(m,1H),7.05(d,J=8.4Hz,1H),7.11(s,1H),7.13(s,1H),7.25(dd,J=2.1,8.4Hz,1H),7.31-7.43(m,5H) IR(KBr)1518,1488,1355,1293,1264,1169,1151,1109,970,872,818cm^{-1}
I-555	m.p.126-127℃ ^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.82(s,3H),3.20(s,3H),3.23(s,3H),4.65(d,J=6.6Hz,2H),5.50(m,1H),7.10(d,J=8.7Hz,1H),7.18-7.27(m,2H),7.36-7.43(m,2H),7.50(dd,J=1.5,8.7Hz,1H),7.55(d,J=1.5Hz,1H),7.60-7.66(m,2H) IR(KBr)1527,1489,1359,1295,1266,1177,1153,1118,974,894,874cm^{-1}

Table 111

I-556	m.p.154-155℃ ^{1}HNMR(CDCl$_3$) δ 2.25(s,3H),2.28(s,3H),2.38(s,3H),3.11(s,3H),3.20(s,3H),5.13(s,2H),7.11(s,1H),7.14(s,1H),7.19-7.28(m,4H),7.31-7.43(m,7H) IR(KBr)1520,1487,1365,1284,1260,1192,1172,1152,1108,967,867,809,795cm^{-1}
I-557	m.p.112-113℃ ^{1}HNMR(CDCl$_3$) δ 1.69(s,3H),1.76(s,3H),2.26(s,3H),2.27(s,3H),2.54(dt,J=7.2,6.9Hz,2H),4.07(t,J=6.9Hz,2H),4.86(s,1H),5.23(m,1H),5.71(s,1H),6.82(dd,J=2.1,8.4Hz,1H),6.85-6.93(m,3H),6.96(d,J=2.1Hz,1H),7.10(s,1H),7.12(s,1H),7.22-7.27(m,2H) IR(KBr)3380,1613,1586,1523,1490,1471,1431,1391,1293,1261,1246,1205,1171,1130,836cm^{-1}
I-558	m.p.141-142℃ ^{1}HNMR(CDCl$_3$) δ 1.77(s,3H),1.82(s,3H),4.63(d,J=6.9Hz,2H),5.06(s,1H),5.52(m,1H),5.75(s,1H),6.89-6.97(m,3H),7.07(dt,J=8.4,1.8Hz,1H),7.14-7.23(m,3H),7.44-7.51(m,2H) IR(KBr)3429,1612,1594,1531,1489,1467,1449,1401,1259,1213,1169,1132,835,781cm^{-1}
I-559	m.p.179-180℃ ^{1}HNMR(CDCl$_3$) δ 2.26(s,3H),2.28(s,3H),2.39(s,3H),4.81(s,1H),5.11(s,2H),5.70(s,1H),6.83(dd,J=2.1,8.4Hz,1H),6.86-6.91(m,2H),6.98(d,J=8.4Hz,1H),6.98(d,J=2.1Hz,1H),7.10(s,1H),7.12(s,1H),7.21-7.28(m,4H),7.32-7.38(m,2H) IR(KBr)3317,1609,1520,1489,1426,1378,1247,1206,1175,1124,1006,792cm^{-1}
I-560	foam ^{1}HNMR(DMSO-d$_6$) δ 3.74(s,3H),3.75(s,3H),4.62(d,J=5.0Hz,2H),5.02(t,J=5.0Hz,1H),5.19(s,2H),6.94(s,1H),6.99(s,1H),7.06(d,J=8.0Hz,1H),7.22(ddd,J=8.6,2.0,0.8Hz,1H),7.32-7.52(m,8H),7.57(d,J=2.4Hz,1H),9.91(brs,1H) IR(KBr)3257,1525,1491,1464,1453,1382,1207,1035,764,737cm^{-1}

Table 112

I-561	m.p.147-148℃ ^{1}HNMR($CDCl_3$) δ 3.27(s,3H),3.79(s,3H),3.82(s,3H),5.26(s,2H),6.92(s,1H),6.95(s,1H),7.13(d,J=8.7Hz,1H),7.35-7.50(m,8H),7.80(dd,J=8.7,2.7Hz,1H),8.05(d,J=2.7Hz,1H),10.62(s,1H) IR(KBr)1682,1606,1489,1377,1345,1261,1209,1168,1119,1038,871,832cm^{-1}
I-562	m.p.189-191℃ ^{1}HNMR(DMSO-d_6) δ 3.53(s,3H),3.80(s,3H),3.80(s,3H),5.27(s,2H),7.05(s,1H),7.10(s,1H),7.25(d,J=8.7Hz,1H),7.30-7.59(m,7H),7.66(dd,J=11.7,2.1Hz,1H),7.67(dd,J=8.7,2.3Hz,1H),7.84(d,J=2.3Hz,1H),12.7(brs,1H) IR(KBr)3433,1705,1492,1371,1250,1207,1168,1033,868cm^{-1}
I-563	m.p.204-207℃ ^{1}HNMR($CDCl_3$) δ 1.36(s,9H),3.20(s,3H),3.41(s,3H),3.74(s,3H),5.15(s,2H),5.65(s,1H),5.77(s,1H),6.80(s,1H),6.83(dd,J=8.4,2.0Hz,1H),6.96(d,J=2.0Hz,1H),6.98(d,J=8.4Hz,1H),7.34-7.45(m,7H),7.68(d,J=8.7Hz,2H) IR(KBr)3408,3337,1692,1498,1474,1466,1347,1251,1150,870,855cm^{-1}
I-564	m.p.179-182℃ ^{1}HNMR(DMSO-d_6) δ 3.76(s,3H),3.76(s,3H),5.26(s,2H),6.99(s,1H),7.00(t,J=8.7Hz,1H),7.01(s,1H),7.22(ddd,J=8.7,2.4Hz,J=1.2Hz,1H),7.24(d,J=8.9Hz,1H),7.32-7.54(m,6H),7.65(dd,J=8.9,2.4Hz,1H),7.82(d,J=2.4Hz,1H),9.91(s,1H),12.6(brs,1H) IR(KBr)3422,3277,1726,1526,1491,1416,1396,1284,1210,1031cm^{-1}
I-565	m.p.178-180℃ ^{1}HNMR(DMSO-d_6) δ 3.30(s,3H),3.43(s,3H),3.61(s,3H),4.31(s,2H),5.14(s,2H),6.25(s,1H),6.61(dd,J=8.4,1.9Hz,1H),7.05(d,J=8.4Hz,1H),7.33-7.44(m,6H),7.50-7.54(m,2H),7.70(d,J=8.7Hz,2H),9.08(s,1H) IR(KBr)3435,3378,1593,1518,1481,1360,1245,1147,1119,1010,871cm^{-1}

Table 113

I-566	foam ^{1}HNMR(DMSO-d_6) δ 3.27(s,3H),3.59(s,3H),4.21(s,2H),5.13(s,2H),6.17(s,1H),6.60(dd,J=8.3,1.4Hz,1H),6.70(d,J=1.4Hz,1H),6.82(d,J=8.4Hz,2H),7.03(d,J=8.3Hz,1H),7.33-7.53(m,7H),9.07(brs,1H),9.45(brs,1H) IR(KBr)3390,1609,1592,1522,1484,1247,1227,1119,1011,812cm^{-1}
I-567	m.p.146-148℃ ^{1}HNMR(DMSO-d_6) δ 1.64(s,3H),1.70(s,3H),2.44(q,J=6.9Hz,2H),3.53(s,3H),3.78(s,3H),3.80(s,3H),4.05(t,J=6.9Hz,2H),5.26(t,J=6.9Hz,2H),7.05(s,1H),7.10(s,1H),7.19(d,J=8.4Hz,1H),7.50(dd,J=8.4,2.0Hz,1H),7.57(t,J=8.3Hz,1H),7.65(ddd,J=8.3,1.9,0.9Hz,1H),7.66(dd,J=11.9,1.9Hz,1H),7.79(d,J=2.0Hz,1H),12.5(brs,1H) IR(KBr)3434,3299,1727,1489,1375,1341,1209,1172,1033,851,824cm^{-1}
I-568	m.p.179-181℃ ^{1}HNMR($CDCl_3$) δ 1.31(s,9H),3.11(s,3H),3.20(s,3H),3.39(s,3H),3.74(s,3H),5.16(s,2H),5.98(s,1H),6.79(s,1H),7.09(d,J=8.5Hz,1H),7.29(dd,J=8.5,1.9Hz,1H),7.35-7.49(m,8H),7.66(d,J=8.7Hz,2H) IR(KBr)3404,3341,1690,1517,1465,1369,1348,1174,1151,869,814cm^{-1}
I-569	m.p.189-191℃ ^{1}HNMR(DMSO-d_6) δ 3.31(s,3H),3.33(s,3H),3.43(s,3H),3.64(s,3H),4.48(s,2H),5.25(s,2H),6.28(s,1H),7.24(dd,J=9.0,2.0Hz,1H),7.24(d,J=2.0Hz,1H),7.34-7.46(m,6H),7.52-7.55(m,2H),7.70(d,J=9.0Hz,2H) IR(KBr)3490,3392,1596,1518,1483,1364,1150,872,813cm^{-1}
I-570	m.p.194-196℃ ^{1}HNMR($CDCl_3$) δ 3.07(s,3H),3.22(s,3H),3.36(s,3H),3.77(s,3H),5.16(s,2H),6.92(s,1H),7.13(d,J=8.6Hz,1H),7.25(dd,J=8.6,2.1Hz,1H),7.29(d,J=2.1Hz,1H),7.36-7.47(m,7H),7.63(brs,1H),7.67(d,J=8.4Hz,2H) IR(KBr)3433,3329,1737,1518,1476,1369,1168,1148,878cm^{-1}

Table 114

I-571	m.p.184-186℃ ^{1}HNMR($CDCl_3$) δ 2.31(s,3H),2.38(s,3H),3.12(s,3H),3.45(s,3H),3.58(s,3H),3.76(s,3H),5.14(s,2H),6.95(s,1H),7.11-7.23(m,5H),7.34-7.37(m,4H),7.57(dd,J=8.7,2.4Hz,1H),7.66(d,J=2.4Hz,1H) IR($CHCl_3$)2952,1732,1614,1599,1518,1467,1445,1370,1290,1256,1169,1117,1081,1064,1003,973,905,827cm^{-1}
I-572	m.p.218-220℃ ^{1}HNMR($CDCl_3$) δ 2.38(s,3H),3.12(s,3H),3.44(s,3H),3.63(s,3H),3.76(s,3H),5.14(s,2H),6.80-6.83(m,2H),6.94(s,1H),7.14(d,J=8.7Hz,1H),7.21-7.23(m,4H),7.35-7.37(m,2H),7.56(dd,J=8.7,2.4Hz,1H),7.66(d,J=2.4Hz,1H) IR($CHCl_3$)3596,2939,1720,1613,1522,1466,1445,1370,1346,1291,1258,1183,1172,1116,1081,1064,1003,973,904,866,837cm^{-1}
I-573	m.p.197-199℃ ^{1}HNMR(CD_3OD) δ 3.19(s,3H),3.43(s,3H),3.76(s,3H),5.25(s,2H),7.06-7.12(m,3H),7.32-7.43(m,6H),7.52-7.54(m,2H),7.60(dd,J=8.4,2.4Hz,1H),7.66(d,J=2.4Hz,1H) IR(KBr)3421,2941,1738,1708,1643,1519,1472,1354,1297,1259,1228,1171,1119,1081,1063,1001,958,920,871,826,755,697,524cm^{-1}
I-574	m.p.151-153℃ ^{1}HNMR($CDCl_3$) δ 2.39(s,3H),3.44(s,3H),3.64(s,3H),3.74(s,3H),5.12(s,2H),5.78(br,2H),6.78-6.81(m,2H),6.94(s,1H),6.99(d,J=8.4Hz,1H),7.15-7.25(m,6H),7.33-7.36(m,2H) IR($CHCl_3$)3595,3541,2952,1730,1612,1591,1521,1474,1395,1345,1323,1290,1258,1173,1129,1081,1063,1004,901,863,836cm^{-1}
I-575	m.p.195-196℃ ^{1}HNMR(CD_3OD) δ 2.34(s,3H),3.40(s,3H),3.72(s,3H),5.16(s,2H),6.75-6.78(m,2H),6.96(s,1H),7.02(s,1H),7.14-7.21(m,6H),7.36-7.39(m,2H) IR(KBr)3530,3398,2942,1708,1610,1593,1520,1465,1373,1334,1256,1233,1127,1078,1056,996,960,864,834,791,755,690,651,605,534cm^{-1}

Table 115

I-576	m.p.82-84℃ ^{1}HNMR($CDCl_3$) δ 1.70(s,3H),1.75(s,3H),2.54-2.59(m,2H),3.24(s,3H),3.50(s,3H),3.77(s,3H),4.10(t,J=6.9Hz,2H),5.23(m,1H),7.07-7.12(m,4H),7.23-7.28(m,2H),7.57(dd,J=8.7,2.4Hz,1H),7.63(d,J=2.4Hz,1H),9.99(s,1H) IR($CHCl_3$)2936,1697,1604,1591,1518,1469,1445,1371,1331,1294,1232,1172,1159,1123,1093,1005,964cm^{-1}
I-577	m.p.126-128℃ ^{1}HNMR(CD_3OD) δ 1.70(s,3H),1.74(d,J=0.9Hz,3H),2.53-2.61(m,2H),3.25(s,3H),3.44(s,3H),3.75(s,3H),4.13(t,J=6.3Hz,2H),5.29(m,1H),7.04-7.11(m,3H),7.24(d,J=8.7Hz,1H),7.33-7.38(m,2H),7.58-7.65(m,2H) IR(KBr)3432,2940,2566,1735,1711,1646,1613,1519,1470,1447,1366,1297,1264,1228,1172,1118,1081,1063,1001,962,920,898,871,828,796,695,524cm^{-1}
I-578	m.p.202-204℃ ^{1}HNMR($CDCl_3$) δ 3.13(s,3H),3.45(s,3H),3.61(s,3H),3.76(s,3H),5.19(s,2H),6.95(s,1H),7.05-7.11(m,2H),7.14(d,J=8.7Hz,1H),7.30-7.49(m,7H),7.57(dd,J=8.7,2.4Hz,1H),7.67(d,J=2.4Hz,1H) IR($CHCl_3$)2952,1731,1603,1519,1472,1445,1371,1345,1291,1172,1159,1117,1081,1064,1004,972,960,904cm^{-1}
I-579	m.p.197-199℃ ^{1}HNMR($CDCl_3$) δ 2.71(s,3H),3.56,(s,3H),3.75(s,3H),5.18(s,2H),5.72,(s,1H),6.86(s,1H),7.00(d,J=8.4Hz1H),7.12-7.18(m,3H),7.24(d,J=2.1Hz,1H),7.38-7.46(m,7H) IR($CHCl_3$)3543,2939,1602,1521,1482,1465,1394,1370,1328,1254,1178,1159,1130,1081,1005,964,840,816cm^{-1}
I-580	m.p.199-201℃ ^{1}HNMR(CD_3OD) δ 3.40(s,3H),3.73(s,6H),5.22(s,2H),7.00(s,1H),7.03-7.11(m,4H),7.17(m,1H),7.31-7.41(m,5H),7.49-7.52(m,2H) IR(KBr)3527,3434,2940,1701,1591,1518,1465,1380,1335,1320,1291,1270,1222,1161,1130,1078,1056,1002,916,868,837,747,698,633,599,526,480cm^{-1}

Table 116

I-581	m.p.122-123℃ ^{1}HNMR($CDCl_3$) δ 1.78(s,3H),1.82(s,3H),3.25(s,3H),3.50(s,3H),3.76(s,3H),4.66(d,J=6.9Hz,2H),5.52(m,1H),7.09-7.14(m,4H),7.23-7.27(m,2H),7.56(dd,J=8.7,2.1Hz,1H),7.63(d,J=2.1Hz,1H),9.99(s,1H) IR($CHCl_3$)2938,1679,1604,1591,1517,1469,1445,1371,1331,1292,1172,1159,1122,1092,1004,973cm^{-1}
I-582	m.p.158-159℃ ^{1}HNMR($CDCl_3$) δ 2.69(s,3H),3.13(s,3H),3.57(s,3H),3.76(s,3H),5.19(s,2H),6.85(s,1H),7.13-7.18(m,3H),7.37-7.49(m,7H),7.56(dd,J=9.0,2.1Hz,1H),7.62(d,J=2.1Hz,1H) IR($CHCl_3$)2939,1603,1521,1482,1464,1294,1253,1177,1119,1082,1003,963,876,842cm^{-1}
I-583	m.p.145-147℃ ^{1}HNMR($CDCl_3$) δ 2.68(s,3H),3.54(s,3H),3.56(s,3H),3.75(s,3H),5.21(s,2H),5.27(s,2H),6.85(s,1H),7.00(d,J=8.7Hz,1H),7.13-7.23(m,3H),7.33-7.49(m,8H) IR($CHCl_3$)2938,1731,1603,1520,1482,1370,1249,1178,1158,1134,1081,1004,961,840,815cm^{-1}
I-584	m.p.160-162℃ ^{1}HNMR($CDCl_3$) δ 3.47(s,3H),3.74(s,3H),5.18(s,2H),5.72(s,1H),6.00(s,1H),6.46(s,1H),7.01(d,J=8.4Hz,1H),7.10-7.19(m,3H),7.27(d,J=2.1Hz,1H),7.36-7.48(m,7H) IR($CHCl_3$)3540,2938,1603,1568,1522,1490,1464,1416,1396,1325,1263,1158,1111,1072,1002,838cm^{-1}
I-585	m.p.133-134℃ ^{1}HNMR(CD_3OD) δ 1.80(d,J=0.9Hz,3H),1.82(d,J=0.9Hz,3H),3.26(s,3H),3.44(s,3H),3.76(s,3H),4.71(d,J=6.9Hz,2H),5.55(m,1H),7.06-7.12(m,3H),7.26(d,J=8.7Hz,1H),7.34-7.36(m,2H),7.58-7.63(m,2H) IR(KBr)3422,2939,1736,1702,1603,1519,1472,1368,1293,1228,1187,1173,1117,1081,1061,1003,975,961,920,827,759,701,523cm^{-1}

Table 117

I-586	m.p.152-153℃ ^{1}HNMR(CDCl$_3$) δ 1.69(s,3H),1.74(d,J=0.9Hz,3H),2.55-2.57(m,2H),3.23(s,3H),3.44(s,3H),3.60(s,3H),3.77(s,3H),4.09(t,J=6.6Hz,2H),5.22(m,1H),6.95(s,1H),7.05-7.11(m,3H),7.30-7.35(m,2H),7.57(dd,J=8.7,2.4Hz,1H),7.64(d,J=2.4Hz,1H) IR(CHCl$_3$)2938,1731,1601,1519,1469,1445,1370,1345,1291,1172,1159,1117,1081,1064,1004,973,904,864,840cm^{-1}
I-587	m.p.132-133℃ ^{1}HNMR(CDCl$_3$) δ 3.44(s,3H),3.61(s,3H),3.75(s,3H),5.18(s,2H),5.71(s,1H),6.95(s,1H),6.99-7.10(m,3H),7.17(dd,J=8.4,2.1Hz,1H),7.25-7.47(m,8H) IR(CHCl$_3$)3542,2952,2938,1731,1597,1519,1474,1392,1345,1321,1290,1266,1159,1130,1080,1063,1000,900,862,839cm^{-1}
I-588	m.p.92-94℃ ^{1}HNMR(CDCl$_3$) δ 1.69(d,J=0.6Hz,3H),1.76(d,J=1.2Hz,3H),2.51-2.58(m,2H),3.45(s,3H),3.75(s,3H),4.09(t,J=6.9Hz,2H),5.23(m,1H),5.70(br,1H),6.92(d,J=8.4Hz,1H),6.97(s,1H),7.05-7.10(m,2H),7.16(dd,J=8.4,2.1Hz,1H),7.23(d,J=2.1Hz,1H),7.33-7.38(m,2H) IR(KBr)3534,3432,2936,1713,1597,1519,1473,1377,1322,1260,1231,1158,1130,1081,1063,1004,961,919,837,808,791,754,705,521cm^{-1}
I-589	m.p.120-122℃ ^{1}HNMR(CDCl$_3$) δ 1.69(s,3H),1.76(s,3H),2.51-2.58(m,2H),3.44(s,3H),3.61(s,3H),3.75(s,3H),4.09(t,J=6.6Hz,2H),5.23(m,1H),5.73(s,1H),6.92(d,J=8.4Hz,1H),6.96(s,1H),7.04-7.10(m,2H),7.16(dd,J=8.1,1.8Hz,1H),7.23(d,J=1.8Hz,1H),7.31-7.36(m,2H) IR(CHCl$_3$)3541,2937,1731,1598,1519,1471,1391,1345,1323,1290,1265,1159,1130,1080,1063,1005,839cm^{-1}
I-590	m.p.154-156℃ ^{1}HNMR(CDCl$_3$) δ 1.77(s,3H),1.82(s,3H),3.24(s,3H),3.45(s,3H),3.61(s,3H),3.76(s,3H),4.64(d,J=7.2Hz,2H),5.51(m,1H),6.95(s,1H),7.05-7.11(m,3H),7.31-7.35(m,2H),7.57(dd,J=8.7,2.4Hz,1H),7.64(d,J=2.4Hz,1H) IR(CHCl$_3$)2938,1731,1602,1519,1472,1445,1370,1345,1290,1186,1116,1080,1064,1003,973,904,840cm^{-1}

Table 118

I-591	m.p.181-182℃ ^{1}HNMR(CD_3OD) δ 1.77(s,3H),1.80(d,J=0.9Hz,3H),3.42(s,3H),3.74(s,3H),4.65(d,J=6.9Hz,2H),5.55(m,1H),6.99-7.11(m,5H),7.15(d,J=2.1Hz,1H),7.32-7.36(m,2H) IR(KBr)3529,3424,2937,1714,1598,1519,1473,1417,1372,1336,1321,1258,1235,1157,1129,1080,1062,1004,989,917,854,839,807,791,752,703cm^{-1}
I-592	m.p.109-110℃ ^{1}HNMR($CDCl_3$) δ 1.78(s,3H),1.83(s,3H),3.44(s,3H),3.61(s,3H),3.75(s,3H),4.63(d,J=6.6Hz,2H),5.53(m,1H),5.72(s,1H),6.94(d,J=8.1Hz,1H),6.96(s,1H),7.04-7.10(m,2H),7.16(dd,J=8.4,2.1Hz,1H),7.23(d,J=2.1Hz,1H),7.31-7.36(m,2H) IR($CHCl_3$)3538,2938,1731,1598,1519,1473,1391,1345,1290,1264,1159,1129,1080,1063,1004,900,862,839cm^{-1}
I-593	m.p.185-187℃ ^{1}HNMR($CDCl_3$) δ 3.78(s,3H),3.80(s,3H),4.82(s,1H),6.61(m,1H),6.88-6.93(m,2H),6.96(s,1H),7.04(s,1H),7.23-7.25(m,1H),7.45(d,J=0.9Hz,1H),7.48-7.53(m,2H),7.83(d,J=0.9Hz,1H),8.18(brs,1H) IR(KBr)3600-3200(br),1611,1523,1496,1464,1447,1388,1268,1239,1202,1046,1025cm^{-1}
I-594	m.p.188-189℃ ^{1}HNMR($CDCl_3$) δ 3.19(s,3H),3.79(s,3H),3.81(s,3H),6.61-6.62(m,1H),6.96(s,1H),7.06(s,1H),7.24-7.26(m,1H),7.33-7.37(m,2H),7.45(brs,2H),7.64-7.68(m,2H),7.84(d,J=0.9Hz,1H),8.21(brs,1H) IR(KBr)3600-3200(br),1518,1494,1465,1419,1389,1351,1331,1314,1213,1177,1145,1051,1027cm^{-1}
I-595	m.p.98-101℃ ^{1}HNMR($CDCl_3$) δ 1.77(s,3H),1.78(s,3H),1.82(s,3H),1.85(s,3H),3.78(s,3H),3.79(s,3H),4.56(d,J=6.9Hz,2H),4.72(d,J=6.9Hz,2H),5.39-5.44(m,1H),5.52-5.57(m,1H),6.53(d,J=3.0Hz,1H),6.97-7.03(m,4H),7.12(d,J=3.3Hz,1H),7.38(d,J=8.4Hz,1H),7.45(dd,J=1.8,8.7Hz,1H),7.52-7.57(m,2H),7.81(d,J=1.5Hz,1H) IR(KBr)3600-2800(br),1606,1498,1476,1463,1382,1262,1241,1206,1177,1052,1030cm^{-1}

Table 119

I-596	m.p.207-210℃ ^{1}HNMR($CDCl_3$) δ 3.19(s,3H),3.80(s,3H),3.81(s,3H),5.50(s,2H),6.65(d,J=3.0Hz,1H),6.81(d,J=7.8Hz,1H),6.96(s,1H),7.05(s,1H),7.19-7.22(m,1H),7.25-7.45(m,6H),7.54-7.60(m,1H),7.64-7.69(m,2H),7.86(brs,1H),8.61-8.64(m,1H) IR(KBr)3600-3200(br),1496,1478,1364,1347,1210,1176,1155,1052,1028cm^{-1}
I-597	m.p.222-224℃ ^{1}HNMR($CDCl_3$) δ 2.36(s,3H),2.53(s,3H),3.77(s,3H),3.78(s,3H),6.69(dd,J=0.9,4.2Hz,1H),6.95(s,1H),6.96(s,1H),7.23-7.28(m,2H),7.31-7.35(m,2H),7.51-7.54(m,3H),7.59(d,J=3.3Hz,1H),7.73(d,J=1.2Hz,1H),7.80-7.84(m,2H),8.03(d,J=1.2Hz,1H) IR(KBr)3600-3200(br),1509,1487,1464,1444,1366,1208,1172,1129,1092,1049,1028cm^{-1}
I-598	m.p.126-127℃ ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.71(d,J=0.9Hz,3H),2.56(dt,J=6.6,6.9Hz,2H),3.20(s,3H),3.22(s,3H),4.08(t,J=6.9Hz,2H),5.21(m,1H),7.08(d,J=8.4Hz,1H),7.18-7.27(m,2H),7.36-7.43(m,2H),7.50(dd,J=1.8,8.4Hz,1H),7.56(d,J=1.8Hz,1H),7.59-7.66(m,2H) IR(KBr)1528,1488,1469,1395,1362,1342,1297,1265,1201,1176,1152,1116,968,890,872,818cm^{-1}
I-599	m.p.169-170℃ ^{1}HNMR(DMSO-d_6) δ 2.32(s,3H),3.37(s,3H),3.45(s,3H),5.23(s,2H),7.23(d,J=7.8Hz,2H),7.37-7.44(m,3H),7.47-7.53(m,2H),7.56-7.66(m,4H),7.75(d,J=7.5Hz,2H) IR(KBr)1525,1485,1366,1355,1291,1262,1181,1150,1116,969,869,811cm^{-1}
I-600	m.p.123-124℃ ^{1}HNMR($CDCl_3$) δ 1.68(s,3H),1.75(d,J=0.9Hz,3H),2.53(dt,J=7.2,6.9Hz,2H),4.07(t,J=6.9Hz,2H),4.91(s,1H),5.22(m,1H),5.72(s,1H),6.89-6.95(m,2H),7.07(m,1H),7.14-7.22(m,4H),7.44-7.51(m,2H) IR(KBr)3448,1612,1593,1530,1489,1475,1401,1262,1212,1181,1169,1132,839,779cm^{-1}

Table 120

I-601	m.p.184-185℃ ^{1}HNMR(DMSO-d$_6$) δ 2.31(s,3H),5.13(s,2H),6.85-6.91(m,2H),6.97(m,1H),7.07(d,J=8.4Hz,1H),7.07(d,J=1.8Hz,1H),7.20(d,J=8.1Hz,2H),7.32-7.48(m,6H) IR(KBr)3290,1614,1529,1491,1459,1449,1405,1380,1267,1254,1167,1132,783cm^{-1}
I-602	m.p.141-142℃ ^{1}HNMR(CDCl$_3$) δ 1.77(s,3H),1.82(s,3H),3.46(s,3H),3.78(s,3H),4.56(d,J=6.8Hz,2H),5.54(t,J=6.6Hz,1H),6.96-7.26(m,7H),7.61(dd,J=5.2,8.6Hz,2H),9.88(s,1H) IR(KBr)3433,2955,2922,2865,2833,1687,1604,1515,1462,1288,1258,1232,1180,1160,1070,998,845cm^{-1}
I-603	m.p.169-170℃ ^{1}HNMR(CDCl$_3$) δ 2.38(s,3H),3.46(s,3H),3.77(s,3H),5.07(s,2H),7.02-7.38(m,7H),7.61(dd,J=5.4,8.8Hz,2H),9.89(brs,1H) IR(KBr)3433,2936,2840,1698,1517,1462,1251,1233,1067,999,837cm^{-1}
I-604	m.p.120-121℃ ^{1}HNMR(CDCl$_3$) δ 1.68(s,3H),1.74(s,3H),2.50-2.57(m,2H),3.46(s,3H),3.77(s,3H),3.98(t,J=7.0Hz.,2H),5.24(t,J=7.0Hz,1H),6.94-7.26(m,7H),7.61(dd,J=5.4,8.8Hz,2H),9.88(brs,1H) IR(KBr)3435,2960,2937,2876,1698,1605,1516,1464,1441,1379,1296,1272,1233,1221,1161,1073,1024,845,807cm^{-1}
I-605	m.p.151-152℃ ^{1}HNMR(DMSO-d$_6$) δ 1.34(s,6H),3.07-3.15(m,1H),3.32(s,3H),3.67(s,3H),3.97-4.08(m,1H),4.28-4.34(m,1H),6.48(s,1H),7.00(d,J=7.8Hz,2H),7.22-7.35(m,4H),7.66(dd,J=3.2,6.0Hz,2H),8.72(brs,1H) IR(KBr)3460,2960,2935,1607,1521,1488,1456,1392,1244,1226,1160,1122,1073,818cm^{-1}
I-606	m.p.164-165℃ ^{1}HNMR(DMSO-d$_6$) δ 2.32(s,3H),3.31(s,3H),3.66(s,3H),5.08(s,2H),6.46(s,1H),6.99(d,J=5.8Hz,2H),7.20-7.38(m,4H),7.65(dd,J=3.6,6.2Hz,2H),8.69(brs,1H) IR(KBr)3367,2940,1605,1519,1484,1466,1449,1390,1229,1181,1158,1059,1006,987,831,817cm^{-1}

Table 121

I-607	m.p.103-104℃ ^{1}HNMR(DMSO-d_6) δ 1.37(s,6H),2.47-2.59(m,2H),3.31(s,3H),3.66(s,3H),3.94-4.05(m,1H),4.26-4.34(m,1H),6.44(s,1H),7.02(d,J=7.6Hz,2H),7.18-7.35(m,4H),7.64(dd,J=3.4,6.6Hz,2H),8.77(brs,1H) IR(KBr)3400,2993,2961,2930,1607,1522,1486,1471,1454,1393,1226,1123,1072,835,819cm^{-1}
I-608	m.p.157-158℃ ^{1}HNMR(DMSO-d_6) δ 1.73(s,3H),1.77(s,3H),3.31(s,3H),3.72(s,3H),4.54(d,J=6.9Hz,2H),5.47(t,J=7.2Hz,1H),6.93(d,J=8.7Hz,2H),7.05(s,1H),7.19(d,J=9.0Hz,2H),7.30-7.36(m,2H),7.70(dd,J=5.4,8.7Hz,2H) IR(KBr)3406,2936,1712,1608,1519,1472,1444,1375,1235,839cm^{-1}
I-609	m.p.215-216℃ ^{1}HNMR(DMSO-d_6) δ 2.34(s,3H),3.33(s,3H),3.74(s,3H),5.09(s,2H),7.00-7.07(m,3H),7.22-7.39(m,8H),7.73(dd,J=5.6,8.0Hz,2H) IR(KBr)3494,3289,2938,1745,1698,1520,1471,1461,1378,1296,1239,1183,1159,829cm^{-1}
I-610	m.p.169-170℃ ^{1}HNMR(DMSO-d_6) δ 1.64(s,3H),1.71(s,3H),2.41-2.46(m,2H),3.32(s,3H),3.73(s,3H),3.97(t,J=6.6Hz,2H),5.23(t,J=7.2Hz,1H),6.93(d,J=8.1Hz,2H),7.05(s,1H),7.20(d,J=7.2Hz,2H),7.30-7.36(m,2H),7.70(dd,J=4.5,7.5Hz,2H) IR(KBr)3424,2933,1701,1609,1519,1471,1379,1294,1248,1061,839cm^{-1}
I-611	m.p.167-168℃ ^{1}HNMR($CDCl_3$) δ 1.75(s,3H),1.82(s,3H),2.35(s,6H),2.45(s,3H),3.21(s,3H),3.56(s,3H),3.70(s,3H),4.35(d,J=6.9Hz,2H),5.60(t,J=7.2Hz,1H),6.84(s,1H),7.08(s,2H),7.38(d,J=8.7Hz,2H),7.70(d,J=9.0Hz,2H) IR(KBr)3433,2932,1509,1475,1376,1359,1232.,1177,1152,1085,966,874,797cm^{-1}

Table 122

1-612	m.p.175-176℃ ^{1}HNMR($CDCl_3$) δ 2.35(s,6H),2.39(s,3H),2.49(s,3H),3.21(s,3H),3.56(s,3h),3.79(s,3H),4.83(s,2H),6.84(s,1H),7.10(s,2H),7.22(d,J=7.5Hz,2H),7.38(d,J=8.4Hz,4H),7.70(d,J=9.0Hz,2H) IR(KBr)3434,2936,1510,1475,1363,1229,1176,1152,1083,964,871,803cm^{-1}
1-613	m.p.138-139℃ ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.75(s,3H),2.33(s,6H),2.52-2.65(m,2H),3.21(s,3H),3.56(s,3H),3.78(s,3H),3.79(t,J=6.9Hz,2H),5.27(t,J=6.6Hz,1H),6.83(s,3H),7.08(s,6H),7.38(d,J=8.7Hz,2H),7.70(d,J=9.0Hz,2H) IR(KBr)3432,2939,1509,1476,1448,1362,1237,1172,1155,1103,1081,963,873,800cm^{-1}
1-614	m.p.89-90℃ ^{1}HNMR(DMSO-d_6) δ 1.74(s,3H),1.77(s,3h),3.36(s,3H),3.67(s,3H),4.22(d,J=3.0Hz,2H),4.56(d,J=6.3Hz,2H),5.48(t,J=5.7Hz,1H),6.93-6.96(m,3H),7.11(d,J=8.7Hz,2H),7.28-7.34(m,2H),7.68(dd,J=6.0,8.7Hz,2H) IR(KBr)3528,3418,2935,1608,1518,1472,1233,1004,836cm^{-1}
1-615	m.p.89-90℃ ^{1}HNMR(DMSO-d_6) δ 2.33(s,3H),3.36(s,3H),3.67(s,3H),4.22(d,J=3.9Hz,2H),4.59(t,J=4.2Hz,1H),5.09(s,2H),6.94(s,1H),7.02(d,J=8.4Hz,2H),7.22(d,J=8.4Hz,4H),7.28-7.39(m,4H),7.68(dd,J=5.7,8.4Hz,2H) IR(KBr)3485,2931,1517,1473,1460,1383,1243,1225,1079,1014,1001,834,798cm^{-1}
1-616	oil ^{1}HNMR(DMSO-d_6) δ 1.75(s,3H),1.78(s,3H),2.47-2.52(m,2H),3.39(s,3H),3.71(s,3H),4.25(d,J=3.3Hz,2H),4.49(d,J=6.3Hz,2H),5.46(t,J=5.7Hz,1H),6.91-6.95(m,3H),7.13(d,J=8.4Hz,2H),7.24-7.32(m,2H),7.67(dd,J=5.7,8.4Hz,2H) IR(KBr)3528,3419,2935,1608,1518,1472,1383,1232,1004,837cm^{-1}

Table 123

I-617	m.p.138-139℃ ^{1}HNMR(DMSO-d_6) δ 1.70(s,3H),1.77(s,3H),2.24(s,6H),3.30(s,3H),3.64(s,3H),4.31(d,J=6.9Hz,2H),5.56(t,J=6.6Hz,1H),6.39(s,1H),6.84(d,J=8.4Hz,2H),6.91(s,2H),7.44(d,J=8.4Hz,2H),8.50(s,1H),9.50(s,1H) IR(KBr)3400,2966,2934,1609,1519,1465,1444,1389,1362,1269,1228,1211,1194,1171,1118,1089,1027,953cm^{-1}
I-618	m.p.122-123℃ ^{1}HNMR(DMSO-d_6) δ 2.29(s,6H),2.37(s,3H),3.30(s,3H),3.67(s,3H),4.81(s,2H),6.43(s,1H),6.86(d,J=7.5Hz,2H),6.97(s,2H),7.27(d,J=6.9Hz,2H),7.42-7.48(m,2H),8.54(s,1H),9.52(s,1H) IR(KBr)3483,3423,2931,1735,1709,1612,1520,1477,1454,1411,1395,1362,1224,1176,1117,1089,1028cm^{-1}
I-619	m.p.81-82℃ ^{1}HNMR(DMSO-d_6) δ 1.70(s,3H),1.76(s,3H),2.18-2.30(m,2H),2.27(s,6H),3.34(s,3H),3.68(s,3H),3.80(t,J=4.5Hz,2H),5.34(t,J=5.1Hz,1H),6.43(s,1H),6.88(d,J=7.5Hz,2H),6.94(s,6H),7.46-7.50(m,2H),8.53(s,1H),9.54(s,1H) IR(KBr)3410,2930,1612,1521,1479,1454,1395,1361,1265,1227,1174,1117,1090,1028,825cm^{-1}
I-620	m.p.161-162℃ ^{1}HNMR($CDCl_3$) δ 1.32(s,9H),2.38(s,3H),3.10(s,3H),3.20(s,3H),3.39(s,3H),3.74(s,3H),5.12(s,2H),5.96(s,1H),6.79(s,1H),7.09(d,J=8.4Hz,1H),7.21(d,J=7.8Hz,2H),7.28(dd,J=8.4,1.8Hz,1H),7.33-7.38(m,5H),7.67(d,J=8.4Hz,2H) IR(KBr)3398,1718,1518,1472,1366,1173,1151,877,867,813cm^{-1}
I-621	m.p.139-141℃ ^{1}HNMR($CDCl_3$) δ 1.33(s,9H),1.68(s,3H),1.74(s,3H),2.54(q,J=6.9Hz,2H),3.19(s,3H),3.20(s,3H),3.39(s,3H),3.73(s,3H),4.05(t,J=6.9Hz,2H),5.21(t,J=6.9Hz,1H),5.95(s,1H),6.79(s,1H),7.02(d,J=8.4Hz,1H),7.29(dd,J=8.4,1.9Hz,1H),7.33(d,J=1.9Hz,1H),7.36(d,J=8.7Hz,2H),7.66(d,J=8.7Hz,2H) IR(KBr)3416,1720,1519,1469,1365,1237,1152,1117,975,872,815cm^{-1}

Table 124

I-622	m.p.197-199℃ ^{1}HNMR(DMSO-d_6) δ 2.33(s,3H),3.31(s,6H),3.43(s,3H),3.64(s,3H),3.74(s,3H),4.47(s,2H),5.19(s,2H),6.28(s,1H),7.21-7.25(m,4H),7.35(d,J=8.7Hz,1H),7.40-7.44(m,4H),7.70(d,J=9.0Hz,2H) IR(KBr)3482,3385,1597,1519,1484,1368,1353,1150,872,813cm^{-1}
I-623	m.p.99-101℃ ^{1}HNMR(DMSO-d_6) δ 2.32(s,3H),3.27(s,3H),3.59(s,3H),4.21(s,2H),5.08(s,2H),6.17(s,1H),6.58(dd,J=8.0,1.8Hz,1H),6.69(d,J=1.8Hz,1H),6.82(d,J=8.7Hz,2H),7.01(d,J=8.0Hz,1H),7.21(d,J=7.8Hz,2H),7.39(d,J=7.8Hz,2H),7.41(d,J=8.7Hz,2H),9.02(brs,1H),9.45(brs,1H) IR(KBr)3390,1609,1592,1521,1484,1246,1227,1117,1011,810cm^{-1}
I-624	m.p.215-217℃ ^{1}HNMR($CDCl_3$+CD_3OD)d3.78(s,3H),3.79(s,3H),5.49(s,2H),6.64(dd,J=0.6,2.7Hz,1H),6.79(d,J=8.1Hz,1H),6.90(d,J=8.7Hz,2H),6.96(s,1H),7.02(s,1H),7.19-7.32(m,3H),7.40-7.50(m,3H),7.56-7.60(m,1H),7.85(d,J=0.9Hz,1H),8.58-8.60(m,1H) IR(KBr)3600-2600(br),1611,1599,1500,1477,1445,1395,1264,1238,1210,1052,1029,1008cm^{-1}
I-625	m.p.213-214℃ ^{1}HNMR($CDCl_3$) δ 2.36(s,3H),3.77(s,6H),6.70(dd,J=0.6,3.6Hz,1H),6.93(s,1H),6.96(s,1H),7.08-7.16(m,2H),7.24-7.28(m,2H),7.51-7.60(m,4H),7.73(d,J=1.5Hz,1H),7.80-7.84(m,2H),8.03(d,J=9.0Hz,1H) IR(KBr)3600-2800(br),1597,1517,1496,1464,1444,1372,1209,1189,1172,1157,1121,1092,1050,1028cm^{-1}
I-626	^{1}HNMR($CDCl_3$+CD_3OD) δ 3.13(s,3H),3.81(s,3H),3.82(s,3H),5.19(s,2H),6.97(s,1H),6.99(s,1H),7.14(d,J=8.7Hz,1H),7.34-7.52(m,6H),7.61(d,J=2.1Hz,1H),7.73(d,J=8.4Hz,2H),8.12(d,J=8.4Hz,2H) IR(KBr)3432,1616,1520,1494,1452,1388,1352,1282,1261,1211,1186,1175,1113,1058,1033cm^{-1}
I-627	^{1}HNMR($CDCl_3$) δ 3.81(s,6H), 5.17(s,2H), 6.99(s,1H), 7.00(d,J=8.4Hz,1H), 7.09(dd,J=8.4&1.8Hz,1H), 7.23(d,J=1.8Hz,1H), 7.33-7.50 (m, 5H), 7.76(.d,J=8.4Hz,2H), 8.10(d,J=8.4Hz,2H) IR(KBr)3551,3520,3399,1615,1587,1576,1521,1488,1455,1383,1268,1245,1208,1126,1055,1034,1003cm^{-1}

Table 125

I-628	^{1}HNMR(CDCl$_3$) δ 3.05(s,3H),3.47(s,3H),3.75(s,3H),5.15(s,2H),6.45(s,1H),6.94(dd,J=8.4&1.8Hz,1H),7.03(d,J=8.4Hz,1H),7.06(d,J=1.8Hz,1H),7.30(d,J=8.1Hz,2H),7.36-7.51(m,5H),7.63(d,J=8.1Hz,2H) IR(KBr)3525,3472,1609,1588,1522,1487,1455,1407,1321,1286,1242,1148,1115,1071,1013cm^{-1}
I-629	^{1}HNMR(CDCl$_3$) δ 2.68(s,3H),3.07(s,3H),3.14(s,3H),3.55(s,3H),3.78(s,3H),5.19(s,2H),6.85(s,1H),7.16(d,J=8.7Hz,1H),7.27-7.50(m,9H),7.62(d,J=9.0Hz,2H) IR(KBr)3432,1611,1522,1482,1462,1392,1358,1295,1233,1178,1154,1119,1082,1012cm^{-1}
I-630	^{1}HNMR(CDCl$_3$) δ 2.88(s,3H), 3.08(s,3H), 3.28(s,3H), 3.30(s,3H), 3.54(s,3H), 3.79(s,3H), 6.87(s,1H), 7.32(d,J=8.4Hz,2H), 7.43 (d.d, J=8.4&2.1Hz, 1H), 7.54-7.65(m,4H) IR(KBr)3432,1612,1519,1481,1367,1332,1232,1177,1154,1077,1011cm^{-1}
I-631	^{1}HNMR(CDCl$_3$) δ 1.57(s,3H), 169(s,3H), 2.66(s,3H), 2.97(s,3H), 3.13(s,3H), 3.54(s,3H), 3.77(s,3H), 4.31(d,J=7.2Hz,2H), 5.19(s,2H), 5.21-5.32 (m,1H), 6.86(s,1H),7.15(.d,J=8.7Hz,1H),7.30-7.52(m,9H),7.63(d,J=8.4Hz,2H) IR(KBr)1609,1520,1481,1365,1338,1294,1270,1233,1178,1153,1118,1078,1015,947cm^{-1}
I-632	^{1}HNMR(CDCl$_3$) δ 1.45(s,3H),1.59(s,3H),1.66(s,3H),1.70(s,3H),2.97(s,3H),3.11(s,3H),3.64(s,3H),3.75(s,3H),4.28(d,J=8.4Hz,2H),4.32(d,J=8.4Hz,2H),5.18(s,2H),5.23(t,J=8.4Hz,1H)),5.29(t,J=8.4Hz,1H),6.70(s,1H),7.10(d,J=8.4Hz,1H)7.30-7.51(m,9H),7.58(d,J=8.4Hz,2H)
I-633	^{1}HNMR(CDCl$_3$) δ 1.58(s,3H),1.69(s,3H),2.97(s,3H),3.45(s,3H),3.75(s,3H),4.33(d,J=7.5Hz,2H),5.16(s,2H),5.24-5.33(m,1H),5.69 (s, 1H),5.87(s,1H),6.47(s,1H),6.95(d.d,J=8.4&2.1Hz,1H),7.03(d,J=8.4Hz,1H),7.09(.d,J=2.1Hz,1H),7.31-7.50(m,7H),7.65 (d, J=8.4Hz, 2H) IR(KBr)3450,1609,1590,1558,1524,1487,1448,1421,1320,1233,1143,1117,1073,1019cm^{-1}
I-634	^{1}HNMR(CDCl$_3$) δ 1.57(s,3H),1.68(s,3H),2.66(s,3H),2.70(s,3H),3.13(s,3H),3.54(s,3H),3.78(s,3H),4.33(d,J=8.4Hz,2H),5.19(s,2H),5.26(t,J=8.4Hz),6.86(s,1H),7.15(d,J=8.7Hz,1H),7.30-7.49(m,9H),7.63(d,J=8.4Hz,2H) IR(KBr)1615,1517,1480,1372,1337,1233,1213,1178,1154,1076,1014cm^{-1}

Table 126

I-635	^{1}HNMR($CDCl_3$) δ 1.58(s,3H),1.69(s,3H),2.82(s,3H),2.97(s,3H),3.29(s,3H),3.53(s,3H),3.77(s,3H),4.33(d,J=7.2Hz,2H),5.27(t,J=7.2Hz,1H),6.25(s,1H),6.86(s,1H),7.17(d,J=9.0Hz,1H)),7.23-7.32(m,2H),7.41(d,J=8.7Hz,2H),7.63(d,J=8.7Hz,2H) IR(KBr)3431,1611,1522,1482,1364,1337,1294,1231,1178,1153,1077,1014cm^{-1}
I-636	^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.82(s,3H),3.09(s,3H),3.47(s,3H),3.75(s,3H),4.62(d,J=6.9Hz,2H),5.47-5.58(m,1H), 5.71(s,1H), 5.87 (s, 1H), 6.45(s,1H),6.60(s,1H),6.89-7.01(m,2H),7.05(d,J=0.6Hz,1H),7.30(.d,J=8.7Hz,2H),7.65(d,J=8.7Hz,2H) IR(KBr)3448,3265,1612,1585,1521,1487,1330,1287,1243,1225,1152,1112,1069,971cm^{-1}
I-637	^{1}HNMR($CDCl_3$) δ 1.57(s,3H),1.69(s,3H),1.77(s,3H),1.81(s,3H),2.70(s,3H),2.97(s,3H),3.24(s,3H),3.54(s,3H),3.78(s,3H),4.32(d,J=6.9Hz,2H),4.64(d,J=6.6Hz,2H),5.27(t,J=6.9Hz,1H),5.49(t,J=6.6Hz,1H),6.86(s,1H),7.09(d,J=8.4Hz,1H),7.32-7.44(m,4H),7.63(d,J=8.4Hz,2H) IR(KBr)1609,1520,1481,1365,1339,1292,1270,1236,1178,1153,1118,1078,1015cm^{-1}
I-638	^{1}HNMR($CDCl_3$) δ 1.58(s,3H), 1.69(s,3H), 1.76(s,3H), 1.82(s,3H), 2.97(s,3H), 3.45(s,3H), 3.75(s,3H), 4.32(d,J=7.8Hz,2H), 4.63(.d,J=7.8Hz,2H),5.23-5.33(m,1H),5.48-5.57(m,1H),5.69(s,1H),5.85(s,1H),6.46(s,1H),6.89-7.02(m,2H), 7.05 (d, J=1.8Hz, 1H), 7.40 (d, J= 8.7Hz, 2H), 7.65(d,J=8.7Hz,2H) IR(KBr)3450,1609,1588,1557,1525,1487,1445,1327,1248,1148,1114,1072,1015cm^{-1}
I-639	^{1}HNMR($CDCl_3$) δ 2.55(s,3H), 2.67(s,3H), 3.58(s,3H), 3.79(s,3H), 5.18(s,2H), 5.71(s,1H), 6.85(s,1H), 6.91 (d.d, J=8.4&2.1Hz, 1H), 7.03(d,J=8.4Hz,1H), 7.04(d,J=2.1Hz,1H), 7.32-7.48 (m, 6H), .7.85(.d.d,J=7.8&1.5Hz,1H),8.22(d,J=1.5Hz,1H) IR(KBr)3457,1739,1529,1481,1407,1376,1346,1279,1243,1177,1128,1071,1012cm^{-1}
I-640	^{1}HNMR($CDCl_3$) δ 2.67(s,3H),2.68(s,3H),3.13(s,3H),3.58(s,3H),3.80(s,3H),5.19(s,2H),6.86(s,1H),7.15(d,J=8.7Hz,1H),7.31-7.49 (m, 8H), 7.83 (d.d,J=8.1&1.8Hz,1H),8.21(d,J=1.8Hz,1H) IR(KBr)3433,1609,1530,1481,1372,1290,1268,1238,1177,1118,1075,1012cm^{-1}

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I-641	^{1}HNMR($CDCl_3$) δ 2.67(s,3H), 3.50(s,3H), 3.77(s,3H), 5.16(s,2H), 5.70(s,1H), 5.83(s,1H), 6.47(s,1H), 6.94 (d.d, J=8.7 &1.8Hz,1H), 7.04 (.d, J=8.7Hz,1H), 7.07(d,J=1.8Hz,1H),7.34-7.48(m,5H),7.82(d.d,J=8.1&1.8Hz,1H),8.26(.d,J=1.8Hz,1H) IR(KBr)3555,3377,1590,1529,1503,1451,1414,1341,1324,1242,1225,1121cm^{-1}
I-642	^{1}HNMR($CDCl_3$) δ 2.29(s,3H),2.68(s,3H),3.12(s,3H),3.56(s,3H),3.76(s,3H),5.18(s,2H),6.85(s,1H),7.00-7.20(m,4H),7.31-7.49(m,7H) IR(KBr)3407,1624,1518,1480,1361,1287,1270,1234,1175,1117,1084,1009cm^{-1}
I-643	^{1}HNMR($CDCl_3$) δ 2.40(s,3H),2.67(s,3H),3.09(s,3H),3.13(s,3H),3.59(s,3H),3.78(s,3H),5.19(s,1H),6.17(s,1H),6.85(s,1H),7.15(d,J=8.4Hz,1H),7.30-7.49(m,9H),7.69(d,J=1.8Hz,1H) IR(KBr)3433,3304,1608,1519,1481,1365,1326,1294,1269,1237,1177,1156,1114,1079,1015cm^{-1}
I-644	^{1}HNMR($CDCl_3$) δ 2.09(s,3H),2.39(s,3H),2.68(s,3H),3.13(s,3H),3.49(s,3H),3.76(s,2H),5.19(s,2H),6.30(s,1H),6.77(s,1H),7.12-7.24(m,3H),7.31-7.49(m,9H),7.54(d,J=1.8Hz,1H),7.67(d,J=8.4Hz,2H) IR(KBr)3434,1608,1519,1481,1366,1293,1269,1237,1164,1114,1081,1016cm^{-1}
I-645	^{1}HNMR($CDCl_3$) δ 2.09(s,3H), 2.39(s,3H), 3.43(s,3H), 3.73(s,3H), 5.16(s,2H), 5.30(s,1H), 5.68(s,1H), 5.89(s,1H), 6.32(s,1H), 6.36 (s, 1H),6.95(d.d,J=8.7&2.1Hz,1H),7.03(d,J=8.7Hz,1H),7.08(d,J=2.1Hz,1H),7.14-7.28(m,3H),7.34-7.50(m,5H), 7.61 (.d, J=1.5Hz,1H), 7.68 (d,J=8.4Hz,2H) IR(KBr)3465,3270,1612,1587,1558,1519,1487,1454,1384,1244,1160,1123,1105,1091,1070,1009cm^{-1}
I-646	^{1}HNMR($CDCl_3$) δ 2.48(s,3H),2.63(s,3H),3.02(s,3H),3.13(s,3H),3.28(s,2H),3.54(s,3H),3.78(s,3H),5.19(s,2H),6.85(s,1H),7.15(d,J=8.4Hz,1H),7.30-7.49(m,9H),7.59(s,1H) IR(KBr)3433,1606,1519,1481,1364,1341,1292,1272,1233,1178,1148,1118,1082cm^{-1}
I-647	^{1}HNMR($CDCl_3$) δ 2.48(s,3H), 3.02(s,3H), 3.28(s,3H), 3.46(s,3H), 3.75(s,3H), 5.16(s,2H), 5.70(s,1H), 5.84(s,1H), 6.47(s,1H), 6.94 (d.d, J=8.4&2.1Hz,1H), 7.03(.d,J=8.4Hz,1H),7.07(d,J=2.1Hz,1H),7.33-7.53(m,7H),7.62(d,J=1.8Hz,1H) IR(KBr)3528,3429,1609,1584,1558,1517,1487,1454,1331,1317,1137,1115,1068,1002cm^{-1}

Table 128

I-648	^{1}HNMR($CDCl_3$) δ 1.55(s,3H),2.45(s,3H),2.79(s,3H),3.02(s,3H),3.29(s,3H),3.52(s,3H),3.77(s,3H),4.12-4.31(m,2H),5.22-5.31(m,1H),6.30(s,1H),6.84(s,1H),7.17(d,J=8.7Hz,1H),7.25-7.32(m,2H),7.39(d,J=8.4Hz,1H),7.45(d.d,J=8.4&1.8Hz,1H),7.53(d,J=1.8Hz,1H) IR(KBr)3431,1609,1522,1481,1365,1334,1294,1235,1178,1150,1077,1013cm^{-1}
I-649	^{1}HNMR($CDCl_3$) δ 1.54(s,3H),1.68(s,3H),1.76(s,3H),1.81(s,3H),2.45(s,3H),2.68(s,3H),3.02(s,3H),3.24(s,3H),3.52(s,3H),3.78(s,3H),4.10-4.34(m,2H),4.64(d,J=7.2Hz,2H),5.21-5.30(m,1H),5.45-5.53(m,1H),6.84(s,1H),7.08(d,J=8.4Hz,1H),7.31-7.48(m,4H),7.53(d,J=1.5Hz,1H) IR(KBr)3432,1606,1518,1481,1362,1340,1292,1276,1236,1177,1153,1116,1076,1010cm^{-1}
I-650	^{1}HNMR($CDCl_3$) δ 1.56(s,3H),1.68(s,3H),1.76(s,3H),1.82(s,3H),2.44(s,3H),3.02(s,3H),3.45(s,3H),3.75(s,3H),4.10-4.32(m,2H),4.62 (d,J=7.2Hz,2H),5.22-5.32(m,1H),5.48-5.57(m,1H),5.60-5.80(brroad,1H), 5.82(s,1H), 6.46(s,1H), 6.92 (d.d, J=8.1&1.8Hz,1H), 6.97(d, J=8.1Hz, 1H), 7.04(d,J=1.8Hz,1H), 7.38(d,J=8.1Hz,1H), 7.47(d.d,J=8.1&1.8Hz,1H), 7.57 (d, J=1.8Hz,1H) IR(KBr)3433,1610,1586,1557,1518,1486,1336,1240,1149,1110,1069cm^{-1}
I-651	^{1}HNMR(CD_3OD) δ 3.33(s,3H),3.66(s,3H),5.18(s,2H),6.42(s,1H),1H),6.75(dd,J=8.4&2.1Hz,1H),6.87(d,J=2.1Hz,1H),6.95(d,J=8.4Hz,1H),7.26-7.58(m,8H),7.81(d.d,J=7.8&1.2Hz,1H) IR(KBr)3446,1698,1586,1517,1498,1481,1454,1408,1287,1247,1117,1069,1010cm^{-1}
I-652	^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.81(s,3H),2.76(s,3H),3.23(s,3H),3.43(s,3H),3.72(s,3H),3.76(s,3H),4.64(d,J=6.6Hz,2H),5.50(t,J=6.6Hz,1H),6.78(s,1H),7.08(d,J=8.7Hz,1H),7.33-7.51(m,4H),7.56-7.63(m,1H),7.96(d.d,J=7.5&1.2Hz,1H) IR(KBr)1725,1609,1520,1480,1400,1366,1295,1260,1178,1119,1073,1010cm^{-1}
I-653	^{1}HNMR($CDCl_3$) δ 2.38(s,3H),2.72(s,3H),3.12(s,3H),3.43(s,3H),3.73(s,3H),3.76(s,3H),5.14(s,2H),6.79(s,1H),7.13-7.24(m,3H),7.30-7.38(m,3H),7.41-7.51(m,3H),7.56-7.63(m,1H),795(d.d,J=7.5&1.2Hz,1H) IR(KBr)1725,1610,1520,1481,1401,1370,1293,1262,1179,1119,1076,1011cm^{-1}

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I-654	^{1}HNMR($CDCl_3$) δ 1.75(s,3H),1.81(s,3H),3.56(s,3H),3.72(s,3H),4.60(d,J=6.6Hz,2H),5.29(s,1H),5.46-5.56(m,1H),5.56-6.00(broad,1H),6.42(s,1H),6.94(s,2H),7.05(s,1H),7.43-7.52(m,2H),7.56-7.65(m,1H),7.99(.d,J=8.7Hz,1H) IR(KBr)3433,1697,1585,1517,1481,1454,1410,1287,1244,1117,1068cm^{-1}
I-655	^{1}HNMR($CDCl_3$) δ 2.39(s,3H),3.37(s,3H),3.72(s,3H),5.10(s,2H),6.41(s,1H),6.94(dd,J=8.1&2.1Hz,1H),7.02(d,J=8.1Hz,1H),7.06(d,J=2.1Hz,1H),7.23(d,J=7.8Hz,2H),7.35(.d,J=7.8Hz,2H),7.42-7.63(m,3H),7.96(d,J=7.8Hz,1H) IR(KBr)3538,3443,1685,1518,1458,1413,1253,1116,1069,1010cm^{-1}
I-656	m.p.110-112℃ ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.74(s,3H),2.55(q,J=7.1Hz,2H),3.20(s,3H),3.21(s,3H),3.39(s,3H),3.70(s,3H),4.07(t,J=7.1Hz,2H),5.22(t,J=7.1Hz,1H),6.28(s,1H),7.09(d,J=8.4Hz,1H),7.32(dd,J=8.4,2.0Hz,1H),7.36(d,J=8.9Hz,2H),7.37(d,J=2.0Hz,1H),7.69(d,J=8.9Hz,2H)IR(KBr)3477,3402,1607,1518,1481,1365,1151,1111,872,813cm^{-1}
I-657	m.p.159-162℃ ^{1}HNMR(DMSO-d_6) δ 1.64(s,3H),1.71(s,3H),2.45(q,J=6.7Hz,2H),3.27(s,3H),3.59(s,3H),3.96(t,J=6.7Hz,2H),4.22(s,2H),5.26(t,J=6.7Hz,1H),6.17(s,1H),6.60(dd,J=8.1,2.0Hz,1H),6.67(d,J=2.0Hz,1H),6.83(d,J=8.7Hz,2H),6.95(d,J=8.1Hz,1H),7.42(d,J=8.7Hz,2H),8.89(s,1H),9.46(s,1H) IR(KBr)3447,3401,3361,1611,1522,1486,1260,1228,1122,1001,814cm^{-1}
I-658	m.p.146-147℃ ^{1}HNMR($CDCl_3$) δ 1.14(t,J=7.2Hz,3H),1.76(d,J=0.9Hz,3H),1.81(d,J=0.3Hz,3H),2.70(s,3H),3.20(s,3H),3.23(s,3H),3.72(q,J=7.2Hz,2H),3.78(s,3H),4.64(d,J=6.6Hz,2H),5.49(m,1H),6.84(s,1H),7.09(d,J=8.4Hz,1H),7.31-7.41(m,4H),7.66-7.74(m,2H) IR($CHCl_3$)2930,1608,1517,1479,1369,1148,1116,1082,969,872cm^{-1}
I-659	m.p.174-175℃ ^{1}HNMR($CDCl_3$) δ 1.14(t,J=6.9Hz,3H),2.37(s,3H),2.65(s,3H),3.12(s,3H),3.20(s,3H),3.72(q,J=6.9Hz,2H),3.77(s,3H),5.14(s,2H),6.84(s,1H),7.15(d,J=8.4Hz,1H),7.18-7.42(m,6H),7.66-7.73(m,2H) IR($CHCl_3$)1517,1479,1369,1268,1148,1117,1082,969,872cm^{-1}

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I-660	m.p.147.5-148℃ ^{1}HNMR($CDCl_3$) δ 1.14(t,J=7.2Hz,3H),1.68(s,3H),1.74(d,J=0.9Hz,3H),2.50-2.59(m,2H),2.72(s,3H),3.20(s,3H),3.22(s,3H),3.72(q,J=7.2Hz,2H),3.77(s,3H),4.07(d,J=6.9Hz,2H),5.21(m,1H),6.84(s,1H),7.07(d,J=8.7Hz,1H),7.31-7.42(m,4H),7.66-7.74(m,2H) IR($CHCl_3$)2930,1607,1517,1480,1369,1148,1118,1082,1025,969,872cm^{-1}
I-661	m.p.154-157℃ ^{1}HNMR($CDCl_3$) δ 1.15(t,J=7.2Hz,3H),1.76(s,3H),1.82(s,3H),3.60(q,J=7.2Hz,2H),3.75(s,3H),4.61(d,J=6.9Hz,2H),4.93(s,1H),5.53(m,1H),5.69(s,1H),5.96(s,1H),6.45(s,1H),6.80-6.98(m,4H),7.07(m,1H),7.51-7.58(m,2H) IR($CHCl_3$)3592,3528,2976,2934,1611,1521,1488,1460,1384,1286,1243,1169,1112,1068,994,885,824cm^{-1}
I-662	m.p.130.5-133℃ ^{1}HNMR($CDCl_3$) δ 1.15(t,J=7.2Hz,3H),2.39(s,3H),3.59(q,J=7.2Hz,2H),3.74(s,3H),4.83(s,1H),5.10(s,2H),5.66(s,1H),5.97(s,1H),6.44(s,1H),6.87-6.94(m,2H),6.96(dd,J=1.8,8.4Hz,1H),7.02(d,J=8.4Hz,1H),7.09(d,J=1.8Hz,1H),7.19-7.26(m,2H),7.30-7.38(m,2H),7.51-7.58(m,2H) IR($CHCl_3$)3524,1612,1521,1488,1460,1383,1286,1246,1113,1069,1027,907,873cm^{-1}
I-663	amorphous powder ^{1}HNMR($CDCl_3$) δ 1.15(t,J=7.2Hz,3H),1.68(d,J=0.6Hz,3H),1.74(d,J=0.9Hz,3H),2.48-2.56(m,2H),3.60(q,J=7.2Hz,2H),3.74(s,3H),4.06(d,J=6.9Hz,2H),4.95(s,1H),5.22(m,1H),5.68(s,1H),5.96(s,1H),6.44(s,1H),6.88-6.99(m,4H),7.06(d,J=1.2Hz,1H),7.51-7.58(m,2H) IR($CHCl_3$)3528,2972,1611,1521,1488,1384,1286,1246,1112,1068,1024,883,824cm^{-1}
I-664	m.p.113-116℃ ^{1}HNMR($CDCl_3$) δ 2.55(s,6H),3.45(s,3H),3.74(s,3H),5.31(s,2H),6.44(s,1H),6.92(d,J=8.7Hz,2H),6.94(dd,J=8.4,2.1Hz,1H),7.10(s,1H),7.10(d,J=2.1Hz,1H),7.20(d,J=8.7Hz,1H),7.52(d,J=8.7Hz,2H) IR(Nujol)3491,3443,3304,3155,1662,1608,1523,1492,1464,1251,1215,1111,1067,811,782cm^{-1}

Table 131

I-665	m.p.>260℃ ^{1}HNMR(CD_3OD) δ 3.39(s,3H),3.68(s,3H),5.40(s,2H),6.44(s,1H),6.83(dd,J=8.4,2.1Hz,1H),6.85(d,J=8.7,2H),6.90(d,J=2.1Hz,1H),7.11(d,J=8.4Hz,1H),7.46(d,J=8.7Hz,2H) IR(Nujol)3350,2668,1611,1595,1530,1488,1458,1402,1253,1213,1116,1073,1016,837,817,781cm^{-1}
I-666	foam ^{1}HNMR($CDCl_3$) δ 2.34(s,3H),2.44(s,3H),2.83(s,3H),3.12(s,3H),3.22(s,3H),3.55(s,3H),3.78(s,3H),4.92(s,2H),6.85(s,1H),7.17(d,J=8.4Hz,1H),7.37～7.42(m,2H),7.39(d,J=8.7Hz,2H),7.68(d,J=8.7Hz,2H) IR(Nujol)1638,1608,1519,1480,1459,1177,1151,1079,971,876,844,798cm^{-1}
I-667	foam ^{1}HNMR($CDCl_3$) δ 2.07(s,3H),2.53(s,3H),2.96(s,3H),3.23(s,3H),3.27(s,3H),3.54(s,3H),3.78(s,3H),4.86(s,2H),6.86(s,1H),7.11(d,J=9.0Hz,1H),7.33～7.41(m,2H),7.39(d,J=8.7Hz,2H),7.67(d,J=8.7Hz,2H) IR(Nujol)1724,1688,1610,1520,1481,1464,1234,1177,1151,1123,1081,876,798cm^{-1}
I-668	m.p.221-223℃ ^{1}HNMR(DMSO-d_6) δ 3.30(s,3H),3.64(s,3H),5.16(s,2H),6.39(s,1H),6.66(dd,J=8.4,2.1Hz,1H),6.77(d,J=2.1Hz,1H),6.84(d,J=8.7Hz,2H),7.00(d,J=8.4Hz,1H),7.34(s,1H),7.44(d,J=8.7Hz,2H),8.43(s,1H) IR(Nujol)3535,3411,1611,1582,1521,1488,1463,1244,1194,1135,1119,1074,1014,930,826,809cm^{-1}
I-669	foam ^{1}HNMR($CDCl_3$) δ 2.79(s,3H),3.17(s,3H),3.22(s,3H),3.55(s,3H),3.78(s,3H),5.21(s,2H),6.85(s,1H),7.19(d,J=8.4Hz,1H),7.23(s,1H),7.38(dd,J=8.7,2.1Hz,1H),7.39(d,J=8.7Hz,2H),7.42(d,J=2.1Hz,1H),7.68(d,J=8.7Hz,2H),7.94(s,1H) IR(Nujol)1608,1519,1480,1463,1177,1151,1119,1079,971,876,798cm^{-1}

Table 132

I-670	m.p.198-201℃ ^{1}HNMR(DMSO-d_6) δ 2.88(s,3H),3.39(s,3H),3.45(s,3H),3.52(s,3H),3.78(s,3H),4.58(s,2H),5.60(s,1H),7.07(s,1H),7.29(dd,J=9.0,1.8Hz,1H),7.30(d,J=1.8Hz,1H),7.37(d,J=9.0Hz,1H),7.48(d,J=8.7Hz,2H),7.74(d,J=8.7Hz,2H),9.39(s,1H) IR(Nujol)3576,3500,3405,3391,1668,1607,1590,1520,1480,1462,1175,1156,1081,1014,880,836,826,801cm^{-1}
I-671	foam ^{1}HNMR($CDCl_3$) δ 2.61(s,3H),2.73(s,3H),3.21(s,3H),3.23(s,3H),3.55(s,3H),3.78(s,3H),5.32(s,2H),6.84(s,1H),7.17(d,J=8.4Hz,1H),7.36(dd,J=8.4,2.1Hz,1H),7.38(d,J=8.7,Hz,2H),7.43(d,J=2.1Hz,1H),7.68(d,J=8.7Hz,2H),8.46(s,1H),8.75(s,1H) IR(Nujol)1608,1519,1481,1463,1177,1151,1080,971,876,798cm^{-1}
I-672	foam ^{1}HNMR($CDCl_3$) δ 2.75(s,3H),3.21(s,3H),3.25(s,3H),3.55(s,3H),3.78(s,3H),5.37(s,2H),6.84(s,1H),7.17(d,J=8.4Hz,1H),7.36(dd,J=8.4,2.1Hz,1H),7.38(d,J=8.7,Hz,2H),7.43(d,J=2.1Hz,1H),7.68(d,J=8.7Hz,2H),8.59(s,1H),8.92(s,1H) IR(Nujol)1608,1519,1480,1463,1177,1151,1080,971,876,798cm^{-1}
I-673	foam ^{1}HNMR($CDCl_3$) δ 2.70(s,3H),3.15(s,3H),3.21(s,3H),3.55(s,3H),3.78(s,3H),5.14(s,2H),6.77(m,2H),6.84(s,1H),7.19(m,2H),7.26(d,J=8.4Hz,1H),7.37(d,J=2.1Hz,1H),7.38(dd,J=2.1,8.4Hz,1H),7.68(d,J=8.4Hz,2H)
I-674	m.p.153-156℃ ^{1}HNMR($CDCl_3$) δ 2.18(s,3H),2.81(s,3H),3.18(s,3H),3.22(s,3H),3.55(s,3H),3.79(s,3H),5.14(s,2H),6.86(s,1H),7.18(dd,J=8.1,8.1Hz,1H),7.24(d,J=8.1Hz,1H),7.26(d,J=8.4Hz,1H),7.36(d,J=1.8Hz,1H),7.38(d,J=8.4Hz,2H),7.39(dd,J=1.8,8.4Hz,1H),7.43(dd,J=8.1,8.1Hz,1H),7.67(d,J=8.4Hz,2H),7.90(d,J=8.1Hz,1H) IR(KBr)3384,1689,1519,1481,1364,1177,1151,1079,970,874,798cm^{-1}

Table 133

I-675	foam ^{1}HNMR(CDCl$_3$) δ 2.76(s,3H),3.16(s,3H),3.22(s,3H),3.23(s,3H),3.55(s,3H),3.78(s,3H),5.23(s,2H),6.85(s,1H),7.23(dd,J=7.5,7.5Hz,1H),7.37(s,2H),7.38(d,J=8.4Hz,2H),7.43(m,3H),7.54(d,J=7.5Hz,1H),7.68(d,J=8.4Hz,2H) IR(KBr)3435,1609,1519,1481,1364,1177,1152,1079,972,876,798cm^{-1}
I-676	m.p.163-165℃ ^{1}HNMR(CDCl$_3$) δ 2.78(s,3H),3.03(s,3H),3.21(s,3H),3.45(s,6H),3.55(s,3H),3.79(s,3H),5.31(s,2H),6.84(s,1H),7.22(d,J=8.4Hz,1H),7.37(dd,J=2.4,8.4Hz,1H),7.38(d,J=8.4Hz,2H),7.42(m,2H),7.53(m,2H),7.67(d,J=8.4Hz,2H),7.68(m,1H) IR(KBr)1609,1519,1481,1365,1176,1161,1080,973,875,799cm^{-1}
I-677	m.p.153-156℃ ^{1}HNMR(CDCl$_3$) δ 2.69(s,3H),2.98(s,3H),3.17(s,3H),3.21(s,3H),3.33(s,3H),3.56(s,3H),3.78(s,3H),5.44(s,2H),6.84(s,1H),7.21(d,J=8.7Hz,1H),7.31-7.46(m,5H),7.38(d,J=8.4Hz,2H),7.68(d,J=8.4Hz,2H),7.72(m,1H) IR(KBr)1610,1519,1481,1365,1177,1149,1079,963,876,799cm^{-1}
I-678	foam ^{1}HNMR(CDCl$_3$) δ 2.60(s,3H),2.75(s,6H),3.17(s,3H),3.21(s,3H),3.55(s,3H),3.78(s,3H),5.31(s,2H),6.83(s,1H),7.08(dd,J=7.5,7.5Hz,1H),7.16(d,J=8.4Hz,1H),7.17(d,J=7.5Hz,1H),7.30(dd,J=2.1,8.4Hz,1H),7.32(dd,J=7.5,7.5Hz,1H),7.37(d,J=8.4Hz,2H),7.38(d,J=2.1Hz,1H),7.52(d,J=7.5Hz,1H),7.68(d,J=8.4Hz,2H) IR(KBr)1609,1519,1480,1365,1235,1177,1151,1079,970,874,797cm^{-1}
I-679	m.p.95-97℃ ^{1}HNMR(CDCl$_3$) δ 1.76(s,3H),1.80(s,3H),3.03(s,3H),3.21(s,3H),3.56(s,3H),3.75(s,3H),4.63(d,J=6.9Hz,2H),4.93(s,2H),5.51(m,1H),6.66(s,1H),7.05(d,J=8.4Hz,1H),7.09-7.17(m,2H),7.37(dd,J=2.4,8.4Hz,1H),7.44(d,J=2.4Hz,1H),7.51-7.58(m,2H) IR(KBr)3435,2936,1605,1519,1475,1382,1365,1232,1161,1109,1080cm^{-1}

Table 134

I-680	m.p.142-144℃ ^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.81(s,3H),3.07(s,3H),3.57(s,3H),3.74(s,3H),4.61(d,J=6.6Hz,2H),4.90(s,2H),5.51(m,1H),5.65(s,1H),6.66(s,1H),6.92(m,2H),7.03(m,1H),7.09-7.17(m,2H),7.52-7.58(m,2H) IR(KBr)3455,2964,2932,1606,1583,1519,1479,1387,1283,1227,1153,1115,1080,1094,1004cm^{-1}
I-681	m.p.158-160℃ ^{1}HNMR($CDCl_3$) δ 1.76(s,3H),1.81(s,3H),3.20(s,3H),3.42(s,3H),3.76(s,3H),4.63(d,J=6.6Hz,2H),5.51(m,1H),6.04(s,1H),6.43(s,1H),7.07(d,J=8.4Hz,1H),7.11-7.19(m,2H),7.42(dd,J=2.1,8.4Hz,1H),7.50(d,J=2.1Hz,1H),7.58-7.65(m,2H) IR(KBr)3505,3440,1613,1522,1489,1386,1352,1292,1227.1109,1013cm^{-1}
I-682	m.p.175-178℃ ^{1}HNMR($CDCl_3$) δ 1.63(s,3H),1.92-2.13(m,4H),3.22(s,3H),3.42(s,3H),3.76(s,3H),4.13(t,J=6.3Hz,2H),6.04(s,1H),6.44(s,1H),7.06(d,J=8.4Hz,1H),7.11-7.19(m,2H),7.43(dd,J=2.1,8.4Hz,1H),7.49(d,J=2.1Hz,1H),7.57-7.65(m,2H) IR(KBr)3467,2973,2943,1613,1523,1489,1359,1232,1113,1072cm^{-1}
I-683	powder ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.75(s,3H),2.48-2.57(m,2H),3.08(s,3H),3.57(s,3H),3.74(s,3H),4.06(t,J=6.9Hz,2H),4.90(s,2H),5.22(m,1H),5.64(s,1H),6.66(s,1H),6.91(m,2H),7.03(m,1H),7.08-7.17(m,2H),7.52-7.59(m,2H) IR(KBr)3432,2930,1604,1583,1518,1475,1382,1280,1249,1222,1160,1111,1082cm^{-1}
I-684	m.p.151-153℃ ^{1}HNMR($CDCl_3$) δ 1.69(s,3H),1.73(s,3H),2.50-2.59(m,2H),3.19(s,3H),3.42(s,3H),3.76(s,3H),4.06(t,J=6.9Hz,2H),5.21(m,1H),6.02(s,1H),6.43(s,1H),7.05(d,J=8.4Hz,1H),7.11-7.19(m,2H),7.42(dd,J=2.4,8.4Hz,1H),7.50(d,J=2.4Hz,1H),7.57-7.65(m,2H) IR(KBr)3457,2937,1613,1523,1489,1465,1390,1361,1295,1234,1185,1110,1072,1013cm^{-1}

Table 135

I-685	m.p.156-158℃ ^{1}HNMR(CDCl$_3$) δ 1.76(s,3H),1.81(s,3H),3.21(s,3H),3.42(s,3H),3.76(s,3H),4.54(d,J=6.9Hz,2H),5.52(t,J=6.9Hz,1H),6.94(s,1H),6.94(d,J=8.7Hz,2H),7.29(d,J=8.7Hz,2H),7.37(d,J=8.7Hz,2H),7.71(d,J=8.7Hz,2H) IR(KBr)1734,1517,1464,1360,1237,1150,1061,988,862cm^{-1}
I-686	m.p.189-191℃ ^{1}HNMR(CDCl$_3$) δ 3.21(s,3H),3.21(s,3H),3.42(s,3H),3.61(s,3H),3.76(s,3H),5.09(s,2H),6.94(s,1H),7.10(d,J=8.4Hz,2H),7.28-7.48(m,9H),7.71(d,J=8.4Hz,2H) IR(KBr)1727,1518,1469,1365,1239,1152,1061,865cm^{-1}
I-687	m.p.112-113℃ ^{1}HNMR(CDCl$_3$) δ 1.68(s,3H),1.74(s,3H),2.50(q,J=7.2Hz,2H),3.21(s,3H),3.42(s,3H),3.62(s,3H),3.76(s,3H),3.96(t,J=7.2Hz,2H),5.23(t,J=7.2Hz,1H),6.92(d,J=8.8Hz,2H),6.93(s,1H),7.28(d,J=8.8Hz,2H),7.37(d,J=8.8Hz,2H),7.71(d,J=8.8Hz,2H) IR(KBr)1735,1519,1469,1361,1246,1153,1059,877,861,847,791cm^{-1}
I-688	m.p.191-193℃ ^{1}HNMR(DMSO-d$_6$) δ 1.73(s,3H),1.76(s,3H),3.31(s,3H),3.71(s,3H),4.54(d,J=6.9Hz,2H),5.46(t,J=6.9Hz,1H),(s,1H),6.87(d,J=8.7Hz,2H),6.91(s,1H),6.92(d,J=8.7Hz,2H),7.19(d,J=8.7Hz,2H),7.48(d,J=8.7Hz,2H),9.59(s,1H),12.8(brs,1H) IR(KBr)3462,1695,1609,1520,1472,1231,1177,1062,1001,837cm^{-1}
I-689	m.p.229-232℃ ^{1}HNMR(DMSO-d$_6$) δ 3.31(s,3H),3.71(s,3H),5.12(s,2H),6.87(d,J=8.8Hz,2H),6.98(s,1H),7.01(d,J=8.8Hz,2H),7.21(d,J=8.8Hz,2H),7.34-7.50(m,7H),9.58(s,1H),12.8(brs,1H) IR(KBr)3424,3238,1685,1610,1521,1464,1379,1235,1180,1057,1001,826cm^{-1}

Table 136

I-690	m.p.171-172℃ ^{1}HNMR(DMSO-d_6) δ 1.64(s,3H),1.70(s,3H),2.43(q,J=6.9Hz,2H),3.31(s,3H),3.70(s,3H),3.96(t,J=6.9Hz,2H),5.23(t,J=6.9Hz,1H),6.87(d,J=8.8Hz,2H),6.91(d,J=8.8Hz,2H),6.98(s,1H),7.19(d,J=8.8Hz,2H),7.48(d,J=8.8Hz,2H),9.58(s,1H),12.8(brs,1H) IR(KBr)3402,3266,1689,1612,1521,1470,1376,1241,1181,1063,1001,829cm^{-1}
I-691	mp191-193℃ ^{1}HNMR($CDCl_3$) δ 2.55(s,3H), 3.52(s,3H), 3.77(s,3H), 5.17(s,2H), 5.70(s,1H), 6.83(s,1H), 6.91(dd,J=1.8,8.1Hz,1H),7.00-7.05(m,2H), 7.10-7.19 (m,2H), 7.34-7.45(m,5H),7.57-7.65(m,2H) IR(KBr)3030,2934,1606,1523,1487,1391,1358,1290,1228,1077,1019,947,831,815,803cm^{-1}
I-692	mp172-173℃ ^{1}HNMR($CDCl_3$) δ 2.47(s,3H),3.52(s,3H),3.53(s,3H),3.77(s,3H),5.21(s,2H),5.25(s,2H),6.82(s,1H),7.01-7.03(m,2H),7.11-7.18(m,2H), 7.22-7.41 (m,6H), 7.57-7.63(m,2H) IR(KBr)3010,2931,1602,1519,1484,1385,1369,1232,1174,1085,847,806,729,527cm^{-1}
I-693	mp129-132℃ ^{1}HNMR($CDCl_3$) δ 3.44(s,3H), 3.53(s,3H), 3.75(s,3H), 5.20(s,2H), 5.26(s,2H), 5.91(s,1H), 6.44(s,1H), 7.01(d,J=8.1Hz,1H), 7.08 (dd, J=1.8Hz, 8.1Hz,1H), 7.11-7.18(m,2H),7.28-7.50(m,6H),7.57-7.64(m,2H) IR(KBr)2996,2952,2932,2895,1609,1522,1488,1229,1120,1075,999,911,815,724,582cm^{-1}
I-694	mp124-126℃ ^{1}HNMR($CDCl_3$) δ 1.76(d,J=0.6Hz,3H), 1.80(d,J=0.9Hz,3H), 2.69(2H,s), 3.54(s,3H), 3.57(s,3H), 3.76(s,3H), 4.64(d,J=6.6Hz,2H), 5.26(s,3H), 5.54(m,1H),6.86(s,1H),6.98(d,J=8.7Hz,1H),7.13-7.25(m,3H),7.38-7.43(m,3H) IR($CHCl_3$)2935,2855,1675,1603,1520,1481,1387,1370,1247,1178,1158,1134,1081,1003,961,839,814cm^{-1}

Table 137

I-695	mp141-142℃ ^{1}HNMR($CDCl_3$) δ 2.34(s,3H), 2.48(s,3H), 5.16(s,2H), 5.70(s,1H), 6.82(dd,J=8.4,2.1Hz,1H), 6.97-7.00(m,2H), 7.07-7.13(m,4H), 7.32-7.46(m,7H) IR($CHCl_3$)3543,3023,2871,1604,1587,1520,1489,1469,1383,1267,1243,1158,1126,1014,957,877,839cm^{-1}
I-696	mp178-180℃ ^{1}HNMR($CDCl_3$) δ 2.75(s,3H), 3.18(s,3H), 3.55(s,3H), 3.76(s,3H), 5.18(s,2H), 5.72(s,1H), 6.87(s,1H), 7.00(d,J=8.7Hz,1H), 7.15 (dd, J=8.7, 2.1Hz,1H), 7.24-7.28(m,2H), 7.36-7.50(m,8H) IR($CHCl_3$)3543,3027,2939,1519,1481,1371,1330,1254,1204,1177,1150,1082,1005,969,873cm^{-1}
I-697	mp129-130℃ ^{1}HNMR($CDCl_3$) δ 2.24(s,3H), 2.29(s,3H), 3.12(s,3H), 5.18(s,2H), 7.08-7.14(m,5H), 7.25-7.50(m,9H) IR($CHCl_3$)2925,2871,1604,1520,1490,1455,1369,1291,1262,1169,1111,1007,972,957,882,840,816cm^{-1}
I-698	mp124-125℃ ^{1}HNMR($CDCl_3$) δ 1.77(s,3H), 1.81-1.82(d,J=0.9Hz,3H), 2.24(s,3H), 2.28(s,3H), 3.22(s,3H), 4.63(d,J=6.6Hz,2H), 5.52(m,1H), 7.04-7.14(m,5H), 7.24-7.34(m,4H) IR(KBr)2978,2924,2868,1893,1771,1604,1520,1489,1368,1290,1261,1169,1109,1046,973,957,882,740,816cm^{-1}
I-699	oil ^{1}HNMR($CDCl_3$) δ 1.69(s,3H), 1.74-1.75(d,J=0.9Hz,3H), 2.24(s,3H), 2.28(s,3H), 2.55(m,2H), 3.21(s,3H), 4.05-4.10(t,J=6.9Hz,2H), 5.22(m,1H), 7.03-7.14(m,5H), 7.24-7.34(m,4H) IR($CHCl_3$)2970,2926,2875,1605,1520,1490,1470,1368,1292,1277,1169,1110,1016,973,958,878,840,819cm^{-1}
I-700	mp121-123℃ ^{1}HNMR($CDCl_3$) δ 2.24(s,3H), 2.83(s,3H), 2.98(s,3H), 3.11(s,3H), 5.13(s,2H), 7.08-7.14(m,4H), 7.21-7.37(m,9H) IR($CHCl_3$)2925,1605,1520,1489,1369,1262,1169,1014,1003,972,957,882,840,816cm^{-1}

Table 138

I-701	mp 215-217 ℃ ^{1}H NMR ($CDCl_3$) δ 2.73 (s, 3H), 3.13 (s, 3H), 3.18 (s, 3H), 3.57 (s, 3H), 3.78 (s, 3H), 5.20 (s, 2H), 6.86 (s, 1H), 7.16 (d, J = 8.7 Hz, 1H), 7.35-7.50 (m, 9H), 7.56 (dd, J = 8.4, 2.4 Hz, 1H), 7.62 (d, J = 2.4 Hz, 1H) IR ($CHCl_3$) 2939, 1613, 1519, 1480, 1371, 1294, 1254, 1176, 1150, 1119, 1083, 1003, 970, 871, 849, 816 cm^{-1}
I-702	mp 71-73 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.83 (s, 3H), 2.24 (s, 3H), 2.29 (s, 3H), 4.61-4.64 (d, J = 6.9 Hz, 2H), 5.54 (m, 1H), 5.71 (s, 1H), 6.80-6.84 (dd, J = 8.4, 2.1 Hz, 1H), 6.92 (d, J = 8.4 Hz, 1H), 7.07-7.13 (m, 4H), 7.30-7.35 (m, 2H) IR (KBr) 3537, 2977, 2924, 2868, 1604, 1585, 1520, 1489, 1450, 1386, 1292, 1267, 1242, 1158, 1125, 996, 957, 839 cm^{-1}
I-703	oil ^{1}H NMR ($CDCl_3$) δ 1.69 (s, 3H), 1.75-1.76 (d, J = 0.9 Hz, 3H), 2.24 (s, 3H), 2.28 (s, 3H), 2.50-2.57 (td, J = 6.9, 6.3 Hz, 2H), 4.05-4.10 (t, J = 6.3 Hz, 2H), 5.24 (m, 1H), 5.70 (s, 1H), 6.81 (dd, J = 8.4, 1.8 Hz, 1H), 6.90 (d, J = 8.4 Hz, 1H), 6.96 (d, J =1.8 Hz, 1H), 7.06-7.13 (m, 4H), 7.26-7.34 (m, 2H) IR ($CHCl_3$) 3540, 2972, 2925, 2877, 1604, 1585, 1520, 1490, 1387, 1293, 1267, 1245, 1158, 1127, 1016, 957, 839 cm^{-1}
I-704	mp 113-115 ℃ ^{1}H NMR ($CDCl_3$) δ 2.24 (s, 3H), 2.28 (s, 3H), 2.39 (s, 3H), 5.11 (s, 2H), 5.69 (s, 1H), 6.82 (dd, J = 8.4, 2.4 Hz, 1H), 6.97-7.00 (m, 2H), 7.07-7.13 (m, 3H), 7.22-7.36 (m, 7H) IR ($CHCl_3$) 3541, 2925, 2871, 1604, 1586, 1520, 1490, 1469, 1380, 1324, 1308, 1292, 1267, 1243, 1201, 1158, 1126, 1013, 957, 876, 839 cm^{-1}

Table 139

I-705	foam ^{1}H NMR ($CDCl_3$) δ 3.20 (s, 3H), 3.27 (s, 3H), 3.43 (s, 3H), 3.73 (s, 3H), 4.37 (br d, J = 5.7 Hz, 2H), 4.58 (s, 2H), 5.16 (s, 2H), 5.68 (s, 1H), 6.82 (dd, J = 8.2, 1.7 Hz, 1H), 6.88 (s, 1H), 6.97 (d, J = 1.7 Hz, 1H), 6.98 (d, J = 8.2 Hz, 1H), 7.35-7.47 (m, 7H), 7.71 (d, J = 8.7 Hz, 2H) IR (KBr) 3464, 1515, 1474, 1369, 1230, 1199, 1176, 1149, 1039, 873 cm^{-1}
I-706	foam ^{1}H NMR ($CDCl_3$) δ 2.42 (br s, 1H), 3.12 (s, 3H), 3.22 (s, 3H), 3.45 (s, 3H), 3.74 (s, 3H), 4.49 (br s, 1H), 5.18 (s, 2H), 6.85 (s, 1H), 7.15 (d, J = 8.6 Hz, 1H), 7.27 (dd, J = 8.6, 2.0 Hz, 1H), 7.35-7.50 (m, 8H), 7.71 (d, J = 8.6 Hz, 2H) IR (KBr) 3583, 3435, 1519, 1467, 1412, 1229, 1180, 1150, 1022, 875, 849, 798, 742, 706 cm^{-1}
I-707	mp 120-121 ℃ ^{1}H NMR ($CDCl_3$) δ 3.45 (s, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 4.66 (s, 2H), 4.77 (s, 2H), 5.15 (s, 2H), 5.67 (s, 1H), 5.91 (s, 1H), 6.47 (s, 1H), 6.96 (dd, J = 8.4, 1.9 Hz, 1H), 7.03 (d, J = 8.4 Hz, 1H), 7.09 (d, J = 1.9 Hz, 1H), 7.37-7.47 (m, 7H), 7.64 (d, J = 8.4 Hz, 2H) IR (KBr) 3504, 3461, 1522, 1485, 1466, 1384, 1466, 1384, 1283, 1245, 1197, 1110, 1042, 925, 812, 749 cm^{-1}
I-708	mp 156-158 ℃ ^{1}H NMR ($CDCl_3$) δ 3.11 (s, 3H), 3.21 (s, 3H), 3.28 (s, 3H), 3.42 (s, 3H), 3.73 (s, 3H), 4.38 (s, 2H), 4.58 (s, 2H), 5.18 (s, 2H), 6.88 (s, 1H), 7.12 (d, J = 8.7 Hz, 1H), 7.27 (dd, J = 8.7, 2.1 Hz, 1H), 7.35-7.50 (m, 8H), 7.70 (d, J = 8.7 Hz, 2H) IR (KBr) 1514, 1469, 1360, 1177, 1149, 1099, 1042, 870 cm^{-1}
I-709	mp 188-190 ℃ ^{1}H NMR ($CDCl_3$) δ 1.70 (t, J = 5.7 Hz, 1H), 3.45 (s, 3H), 3.75 (s, 3H), 4.77 (d, J = 5.7 Hz, 2H), 5.16 (s, 2H), 5.68 (s, 1H), 5.91 (s, 1H), 6.47 (s, 1H), 6.96 (dd, J = 8.5, 1.7 Hz, 1H), 7.03 (d, J = 8.5 Hz, 1H), 7.09 (d, J = 1.7 Hz, 1H), 7.37-7.48 (m, 7H), 7.65 (d, J = 8.4 Hz, 2H) IR (KBr) 3547, 3492, 3451, 1521, 1487, 1385, 1288, 1249, 1209, 1108, 1011, 746, 702 cm^{-1}

Table 140

I-710	mp 178-180 ℃ ^{1}H NMR ($CDCl_3$) δ 2.43 (br s, 1H), 3.44 (s, 3H), 3.72 (s, 3H), 4.52 (m, 2H), 4.93 (s, 1H), 5.15 (s, 2H), 5.70 (s, 1H), 6.79 (dd, J = 8.1, 2.1 Hz, 1H), 6.84 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.93 (d, J = 2.1 Hz, 1H), 7.00 (d, J = 8.7 Hz, 1H), 7.38-7.48 (m, 5H), 7.54 (d, J = 9.0 Hz, 2H) IR (KBr) 3447, 3214, 1609, 1518, 1477, 1459, 1391, 1260, 1221, 1008, 984, 833, 799, 751 cm^{-1}
I-711	foam ^{1}H NMR ($CDCl_3$) δ 2.85 (s, 3H), 3.22 (s, 3H), 3.30 (s, 3H), 3.54 (s, 3H), 3.78 (s, 3H), 5.02 (s, 2H), 6.85 (s, 1H), 7.08 (d, J = 8.4 Hz, 1H), 7.32 (d, J = 2.1 Hz, 1H), 7.37 (dd, J = 8.4, 2.1 Hz, 1H), 7.39 (d, J = 8.7 Hz, 2H), 7.67 (d, J = 8.7 Hz, 2H) IR (Nujol) 3423, 3320, 3215, 1610, 1519, 1480, 1454, 1176, 1151, 1080, 969, 876, 798 cm^{-1}
I-712	foam ^{1}H NMR ($CDCl_3$) δ 2.62 (s, 3H), 3.45 (s, 3H), 3.74 (s, 3H), 5.28 (s, 2H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.95 (dd, J = 8.4, 2.1 Hz, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.11 (d, J = 2.1 Hz, 1H), 7.53 (d, J = 8.7 Hz, 2H), 8.50 (brs, 1H), 8.60 (brs, 1H) IR (Nujol) 3207, 1611, 1589, 1523, 1489, 1460, 1227, 1116, 1072, 1014, 943, 822, 759 cm^{-1}
I-713	mp 231-233℃ ^{1}H NMR ($CDCl_3$) δ 3.30 (s, 3H), 3.64 (s, 3H), 5.28 (s, 2H), 6.39 (s, 1H), 6.67 (dd, J = 8.4, 2.1 Hz, 1H), 6.80 (d, J = 2.1 Hz, 1H), 6.84 (d, J = 8.7 Hz, 2H), 7.01 (d, J = 8.4 Hz, 1H), 7.44 (d, J = 8.7 Hz, 2H), 8.64 (d, J = 2.4 Hz, 1H), 8.67 (dd, J = 2.4, 1.2 Hz, 1H), 8.94 (d, J = 1.2 Hz, 1H) IR (Nujol) 3369, 3164, 1612, 1600, 1585, 1522, 1493, 1385, 1255, 1118, 1073, 1013, 934, 824, 798, 778 cm^{-1}
I-714	foam ^{1}H NMR ($CDCl_3$) δ 2.83 (s, 3H), 3.22 (s, 3H), 3.27 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 5.18 (s, 2H), 6.85 (s, 1H), 7.20 (d, J = 8.4 Hz, 1H), 7.39 (d, J = 8.7 Hz, 2H), 7.40 (dd, J = 8.4, 2.1 Hz, 1H), 7.45 (d, J = 2.1 Hz, 1H), 7.67 (d, J = 8.7 Hz, 2H) IR (Nujol) 3264, 1650, 1607, 1517, 1480, 1175, 1150, 1078, 946, 876, 798 cm^{-1}

Table 141

I-715	foam ^{1}H NMR ($CDCl_3$) δ 2.76 (s, 3H), 2.77 (s, 3H), 3.21 (s, 3H), 3.24 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 5.35 (s, 2H), 6.84 (s, 1H), 7.25 (d, J = 8.4 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.38 (dd, J = 8.4, 2.1 Hz, 1H), 7.44 (d, J = 2.1 Hz, 1H), 7.68 (d, J = 8.7 Hz, 2H) IR (Nujol) 1607, 1578, 1519, 1465, 1176, 1151, 1079, 971, 947, 876, 846, 797 cm^{-1}
I-716	mp 227-229℃ ^{1}H NMR (DMSO-d_6) δ 2.87 (s, 3H), 3.39 (s, 3H), 3.45 (s, 3H), 3.52 (s, 3H), 3.79 (s, 3H), 5.23 (s, 2H), 7.08 (s, 1H), 7.33 (d, J = 2.1 Hz, 1H), 7.35 (dd, J = 8.4, 2.1 Hz, 1H), 7.44 (d, J = 8.4 Hz, 1H), 7.49 (d, J = 8.7 Hz, 2H), 7.74 (d, J = 8.7 Hz, 2H) IR (Nujol) 3276, 1651, 1605, 1520, 1480, 1463, 1174, 1150, 1079, 947, 879, 798 cm^{-1}
I-717	m.p 180-181℃ ^{1}H NMR ($CDCl_3$) δ 3.07 (s, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 5.18 (s, 2H), 6.45 (s, 1H),6.92 (d, J= 8.7 Hz, 2H), 6.99 (dd, J = 1.8, 8.4 Hz, 1H), 7.08 (d, J = 1.8 Hz, 1H), 7.10 (d, J= 8.4 Hz, 1H), 7.25 (t, J = 7.2 Hz, 1H), 7.44 (m, 2H), 7.53 (d, J = 8.7 Hz, 2H), 7.61 (d, J = 8.1 Hz, 1H)
I-718	foam ^{1}H NMR ($CDCl_3$) δ 3.06 (s, 3H), 3.45(s, 3H), 3.74(s, 3H), 5.17 (s, 2H), 6.45 (s, 1H), 6.93 (d, J= 8.7 Hz, 2H), 6.98 (dd, J = 8.7 Hz, 1H), 7.08 (d, J = 2.1 Hz, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.24 (m, 1H), 7.43 (m, 2H), 7.51 (d, J= 8.7 Hz, 2H), 7.61 (m, 1H) IR (KBr) 3430, 1611, 1590, 1523, 1490, 1402, 1323, 1242, 1149, 1112, 1070, 1010, 971, 826 cm^{-1}
I-719	foam ^{1}H NMR ($CDCl_3$) δ 2.80 (s, 6H), 3.47 (s, 3H), 3.76 (s, 3H), 5.08 (s 2H), 6.46 (s, 1H), 6.92 (d, J= 8.7 Hz, 3H), 7.10 (d, J = 2.1 Hz, 1H), 7.15 (d, J = 8.7 Hz, 1H), 7.20 (d, J = 7.2 Hz, 1H), 7.34-7.45 (m, 3H), 7.55 (d, J = 8.7 Hz, 2H) IR (KBr) 3427, 1611, 1585, 1522, 1488, 1404, 1224, 1113, 1069, 1011, 940, 824, 767 cm^{-1}

Table 142

I-720	foam ^{1}H NMR ($CDCl_3$) δ 1.52 (s, 9H), 2.67 (s, 3H), 3.19 (s, 3H), 3.21 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 5.17 (s, 2H), 6.54 (br.s, 1H), 7.11 (m, 1H), 7.12 (d, J = 9.0 Hz, 1H), 7.25 (m, 1H), 7.30 (d, J = 7.5 Hz, 1H), 7.32 (dd, J = 1.8, 9.0 Hz, 1H), 7.36 (d, J = 8.7 Hz, 2H), 7.41 (d, J = 1.8 Hz, 1H), 7.60 (s, 1H), 7.67 (d, J = 8.7 Hz, 2H) IR (KBr) 1724, 1610, 1520, 1481, 1366, 1234, 1177, 1153, 1079, 969, 875, 797 cm^{-1}
I-721	m.p 187-191 ℃ ^{1}H NMR ($CDCl_3$) δ 2.66 (s, 3H), 3.17 (s, 3H), 3.21 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 5.11 (s, 2H), 6.65 (d, J = 8.4 Hz, 1H), 6.81 (m, 2H), 6.84 (s, 1H), 7.12 (d, J = 8.7 Hz, 1H), 7.17 (t, J = 8.7 Hz, 1H), 7.32 (dd, J = 2.1, 8.7 Hz, 1H), 7.37 (d, J = 8.7 Hz, 2H), 7.40 (d, J = 2.1 Hz, 1H), 7.67 (d, J = 8.7 Hz, 2H) IR (KBr) 1624, 1606, 1519, 1481, 1361, 1176, 1148, 1081, 980, 876, 780 cm^{-1}
I-722	m.p 143-146 ℃ ^{1}H NMR ($CDCl_3$) δ 2.18 (s, 3H), 2.71 (s, 3H), 3.18 (s, 3H), 3.21 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 5.18 (s, 2H), 6.84 (s, 1H), 7.12 (d, J = 8.7 Hz, 1H), 7.17 (d, J = 7.2 Hz, 1H), 7.33 (m, 2H), 7.37 (d, J = 8.7 Hz, 2H), 7.41 (d, J = 2.1 Hz, 1H), 7.45 (d, J = 7.2 Hz, 1H), 7.67 (d, J = 8.7 Hz, 2H), 7.67 (m, 1H) IR (KBr) 1693, 1609, 1519, 1481, 1364, 1364, 1173, 1149, 1079, 874, 802 cm^{-1}
I-723	foam ^{1}H NMR ($CDCl_3$) δ 2.86 (s, 3H), 3.00 (s, 3H), 3.22 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 5.22 (s, 2H), 6.59 (s, 1H), 6.85 (s, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.25 (m, 3H), 7.32 (d, J = 2.1, 8.7 Hz, 1H), 7.37 (m, 1H), 7.38 (d, J = 2.1 Hz, 1H), 7.38 (d, J = 8.7 Hz, 1H), 7.67 (d, J = 8.7 Hz, 2H) IR (KBr) 1610, 1519, 1480, 1364, 1176, 1150, 1079, 971, 876, 797 cm^{-1}

Table 143

I-724	foam ^{1}H NMR ($CDCl_3$) δ 2.74 (s, 3H), 3.18 (s, 3H), 3.21 (s, 3H), 3.43 (s, 6H), 3.55 (s, 3H), 3.78 (s, 3H), 5.24 (s, 2H), 6.84 (s, 1H), 7.13 (d, J= 8.4 Hz, 1H), 7.36 (dt, J = 2.1, 8.4 Hz, 1H), 7.37 (m, 1H), 7.39 (d, J = 8.7 Hz, 2H), 7.40 (d, J = 2.1 Hz, 1H), 7.51 (m, 2H), 7.61 (s, 1H), 7.67 (d, J = 8.7 Hz, 2H) IR (KBr) 1609, 1523, 1481, 1353, 1176, 1161, 1080, 890, 799 cm^{-1}
I-725	m.p 147-150 ℃ ^{1}H NMR ($CDCl_3$) δ 2.79 (s, 3H), 2.83 (s, 3H), 3.20 (s, 3H), 3.21 (s, 3H), 3.35 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 5.22 (s, 2H), 6.85 (s, 1H), 7.11 (d, J = 8.7 Hz, 1H), 7.32-7.46 (m, 7H), 7.62 (s, 1H), 7.67 (d, J = 8.4 Hz, 2H) IR (KBr) 1608, 1518, 1480, 1364, 1178, 1153, 1077, 968, 795 cm^{-1}
I-726	m.p 224-226 ℃ ^{1}H NMR ($CDCl_3$) δ 2.85 (s, 3H), 2.91 (s, 6H), 3.36 (s, 3H), 3.45 (s, 3H), 3.51 (s, 3H), 3.78 (s, 3H), 5.19 (s, 2H), 6.69 (d, J = 8.1 Hz, 1H), 6.76 (d, J = 8.1 Hz, 1H), 6.89 (s, 1H), 7.07 (s, 1H), 7.20 (t, J = 8.1 Hz, 1H), 7.30 (m, 3H), 7.48 (d, J = 8.7 Hz, 2H), 7.74 (d, J = 8.7 Hz, 2H) IR (KBr) 1608, 1519, 1480, 1360, 1178, 1146, 1081, 879, 826 cm^{-1}
I-727	foam ^{1}H NMR ($CDCl_3$) δ 2.82 (s, 3H), 3.18 (s, 6H), 3.21 (s, 3H), 3.53 (s, 3H), 3.76 (s, 3H), 5.17 (s, 2H), 6.84 (s, 1H), 7.11 (d, J = 8.4 Hz, 1H), 7.20 (d, J = 4.8 Hz, 1H), 7.30-7.47 (m, 8H), 7.76 (d, J = 8.7 Hz, 2H) IR (KBr) 3430, 1677, 1609, 1519, 1481, 1364, 1202, 1177, 1150, 1079, 876, 799 cm^{-1}
I-728	foam ^{1}H NMR ($CDCl_3$) δ 3.45 (s, 3H), 3.75 (s, 3H), 5.06 (s, 2H), 6.45 (s, 1H), 6.68 (d, J = 7.5 Hz, 1H), 6.77 (s, 1H), 6.82 (d, J = 7.5 Hz, 1H), 6.91 (d, J = 8.7 Hz, 2H), 6.93 (dd, J = 1.8, 8.4 Hz, 1H), 6.99 (d, J = 8.4 Hz, 1H), 7.07 (d, J = 1.8 Hz, 1H), 7.19 (t, J = 7.5 Hz, 1H), 7.54 (d, J = 8.7 Hz, 2H) IR (KBr) 3413, 1611, 1522, 1488, 1461, 1405, 1251, 1119, 1076, 1007, 813, 784 cm^{-1}

Table 144

I-729	m.p 90-93 ℃ ^{1}H NMR ($CDCl_3$) δ 3.01 (s, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 5.16 (s, 2H), 6.45 (s, 1H), 6.81 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.95 (d, J = 1.8 Hz, 1H), 6.96 (m, 2H), 7.24 (m, 2H), 7.40 (t, J = 7.2 Hz, 1H), 7.52 (d, J = 8.7 Hz, 2H) IR (KBr) 3434, 1612, 1592, 1523, 1489, 1325, 1248, 1224, 1147, 1113, 1070, 1010, 972 cm^{-1}
I-730	mp 79-81 ℃ ^{1}H NMR ($CDCl_3$) δ 2.34 (s, 6H), 3.48 (s, 3H), 3.76 (s, 3H), 4.72 (brs, 1H), 5.16 (s, 2H), 5.68 (brs, 1H), 5.93 (brs, 1H), 6.44 (s, 1H), 6.99-7.10 (m, 3H), 7.26-7.49 (m, 7H) IR(KBr) 3467, 2933, 1613, 1701, 1517, 1482, 1454, 1424, 1389, 1321, 1196, 1148, 1113, 1073 cm^{-1}
I-731	mp189-191 ℃ ^{1}H NMR ($CDCl_3$) δ 3.20 (s, 3H), 3.81 (s, 6H), 5.14 (s, 2H), 5.65 (brs, 1H), 6.79 (s, 2H), 6.79-7.02 (m, 5H), 7.36-7.46 (m, 6H), 7.66 (d, J = 8.6 Hz, 2H) IR(KBr) 3439, 2937, 1594, 1567, 1523, 1487, 1351, 1240, 1202, 1146, 1126, 874 cm^{-1}
I-732	mp196-197 ℃ ^{1}H NMR (DMSO-d_6) δ 3.32 (s, 3H), 3.43 (s, 6H), 3.79 (s, 6H), 5.24 (s, 2H), 7.00 (s, 2H), 7.23-7.30 (m, 3H), 7.35-7.55 (m, 7H), 7.88 (d, J = 8.4 Hz, 2H) IR(KBr) 3434, 1602, 1561, 1523, 1485, 1362, 1288, 1238, 1201, 1181, 1148, 1126, 1115, 966, 914, 813 cm^{-1}
I-733	mp202-203 ℃ ^{1}H NMR (DMSO-d_6) δ 2.40 (s, 6H), 3.31 (s, 3H), 3.34 (s, 3H), 3.51 (s, 3H), 3.58 (s, 3H), 3.77 (s, 3H), 5.27 (s, 2H), 7.03 (s, 1H), 7.32-7.530 (m, 10H) IR(KBr) 3434, 3028, 2944, 1515, 1475, 1463, 1361, 1290, 1272, 1247, 1179, 1085, 967, 815, 804 cm^{-1}

Table 145

I-734	mp140-141 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 3.21 (s, 3H), 3.83 (s, 6H), 4.63 (d, J = 4.6 Hz, 2H), 5.52-5.53 (m, 1H), 6.79 (s, 2H), 7.05 (d, J = 8.8 Hz, 1H), 7.29-7.42 (m, 4H), 7.67 (d, J = 8.6 Hz, 2H) IR(KBr) 3434, 2936, 1602, 1565, 1487, 1365, 1242, 1182, 1152, 1123, 1113, 974, 874, 811 cm^{-1}
I-735	mp168-169 ℃ ^{1}H NMR ($CDCl_3$) δ 2.38 (s, 3H), 3.09 (s, 3H), 3.20 (s, 3H), 3.81 (s, 6H), 5.11 (s, 2H), 6.78 (s, 2H), 713-7.42 (m, 9H), 7.66 (d, J = 8.8 Hz, 2H) IR(KBr) 3433, 1601, 1566, 1486, 1367, 1246, 1182, 1153, 1114, 973, 869, 824 cm^{-1}
I-736	mp192-194 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.47 (s, 6H), 2.72 (s, 3H), 3.24 (s, 3H), 3.36 (s, 3H), 3.57 (s, 3H), 3.79 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.47-5.55 (m, 1H), 6.83 (s, 1H), 7.09 (d, J = 9.0 Hz, 1H), 7.33-7.40 (m, 4H) IR(KBr) 3435, 1942, 1516, 1474, 1382, 1357, 1288, 1178, 1096, 966, 862, 805 cm^{-1}
I-737	mp224-225 ℃ ^{1}H NMR ($CDCl_3$) δ 2.38 (s, 3H), 2.46 (s, 6H), 2.66 (s, 3H), 3.12 (s, 3H), 3.36 (s, 3H), 3.55 (s, 3H), 3.77 (s, 3H), 5.14 (s, 2H), 6.82 (s, 1H), 712-7.40 (m, 9H) IR(KBr) 3435, 2941, 1518, 1474, 1360, 1274, 1179, 1095, 1085, 967, 862, 815, 805 cm
I-738	mp203-204 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 2.46 (s, 6H), 2.45-2.58 (m, 2H), 2.73 (s, 3H), 3.22 (s, 3H), 3.35 (s, 3H), 3.55 (s, 3H), 3.77 (s, 3H), 4.07 (d, J = 6.6 Hz, 2H), 5.18-5.25 (m, 1H), 6.82 (s, 1H), 7.07 (d, J = 8.2 Hz, 1H), 7.32-7.39 (m, 4H) IR(KBr) 3434, 2941, 1519, 1473, 1359, 1276, 1178, 1114, 1085, 967, 860, 811 cm^{-1}

Table 146

I-739	mp158-159 ℃ ^{1}H NMR (DMSO-d_6) δ 1.72 (s, 3H), 1.76 (s, 3H), 3.72 (s, 6H), 4.54 (d, J = 6.0 Hz, 2H), 5.45-5.52 (m, 1H), 6.55-6.59 (m, 2H), 6.84-6.90 (m, 5H), 7.57 (d, J = 8.2 Hz, 2H), 8.70 (brs, 1H), 9.53 (brs, 1H) IR(KBr) 3465, 2932, 1610, 1523, 1487, 1460, 1283, 1281, 1123, 1010, 819 cm^{-1}
I-740	mp180-181 ℃ ^{1}H NMR ($CDCl_3$) δ 2.32 (s, 3H), 3.72 (s, 6H), 5.08 (s, 2H), 6.54-6.58 (m, 1H), 6.68 (s, 1H), 6.85-6.95 (m, 5H), 7.21 (d, J = 7.6 Hz, 2H), 7.39 (d, J = 7.8 Hz, 2H), 7.57 (d, J = 8.4 Hz, 2H), 8.83 (brs, 1H), 9.54 (brs, 1H) IR(KBr) 3519, 2937, 1607, 1562, 1523, 1461, 1400, 1246, 1176, 1125, 1003, 821 cm^{-1}
I-741	mp105-106 ℃ ^{1}H NMR ($CDCl_3$) δ 2.13 (s, 6H), 3.17 (s, 3H), 5.16 (s, 2H), 5.85 (brs, 1H), 6.61-6.66 (m, 1H), 6.77 (s, 1H), 7.01 (d, J = 8.2 Hz, 1H), 7.25-7.46 (m, 9H), 7.65 (d, J = 8.8 Hz, 2H) IR(KBr) 3466, 3031, 2934, 1585, 1513, 1476, 1366, 1285, 1198, 1175, 1148, 1127, 1014, 968, 868, 840 cm^{-1}
I-742	mp92-93 ℃ ^{1}H NMR (DMSO-d_6) δ 1.74 (s, 3H), 1.78 (s, 3H), 2.24 (s, 6H), 3.31 (s, 3H), 3.65 (s, 3H), 4.56 (d, J = 6.8 Hz, 2H), 5.52 (t, J = 6.0 Hz, 1H), 6.37 (s, 1H), 6.64-6.76 (m, 2H), 6.88-6.93 (m, 1H), 7.16-7.20 (m, 2H), 8.31 (brs, 1H), 8.45 (brs, 1H), 8.73 (brs, 1H) IR(KBr) 3443, 2932, 1707, 1613, 1516, 1484, 1462, 1387, 1280, 1243, 1196, 1114, 1074, 979 cm^{-1}
I-743	mp180-181 ℃ ^{1}H NMR (DMSO-d_6) δ 2.22 (s, 6H), 2.32 (s, 3H), 3.29 (s, 3H), 3.63 (s, 3H), 5.08 (s, 2H), 6.61-6.65 (m, 1H), 6.75 (s, 1H), 6.93 (d, J = 8.2 Hz, 1H), 7.13-7.22 (m, 4H), 7.39 (d, J = 7.4 Hz, 2H), 8.30 (brs, 1H), 8.44 (brs, 1H), 8.84 (brs, 1H) IR(KBr) 3443, 2930, 1686, 1614, 1587, 1518, 14863, 1462, 1385, 1281, 1246, 1197, 1113, 1073, 1009, 806 cm^{-1}

Table 147

I-744	mp 123-124 ℃ ^{1}H NMR (DMSO-d_6) δ 1.65 (s, 3H), 1.71 (s, 3H), 2.23 (s, 6H), 2.36-2.51 (m, 2H), 3.31 (s, 3H), 3.64 (s, 3H), 3.91-3.98 (m, 2H), 5.22-5.28 (m, 1H), 6.36 (s, 1H), 6.65-6.88 (m, 3H), 7.16 (s, 1H), 8.30 (brs, 1H), 8.44 (brs, 1H), 8.70 (brs, 1H) IR(KBr) 3444, 2930, 1686, 1613, 1518, 1483, 1390, 1283, 1248, 1198, 1113, 1074, 1013 cm^{-1}
I-745	mp 174-177 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77-1.78 (d, J = 0.9 Hz, 3H), 1.82-1.83 (d, J = 0.9 Hz, 3H), 2.74 (s, 3H), 3.18 (s, 3H), 3.25 (s, 3H), 3.57 (s, 3H), 3.78 (s, 2H), 4.64-4.67 (d, J = 6.9 Hz, 2H), 5.51 (m, 1H), 6.86 (s, 1H), 7.09 (d, J = 8.4 Hz, 1H), 7.35-7.40 (m, 2H), 7.45-7.49 (m, 2H), 7.55-7.60 (m, 2H) IR ($CHCl_3$) 2939, 1613, 1519, 1480, 1371, 1331, 1292, 1251, 1176, 1150, 1118, 1082, 971, 871, 849 cm^{-1}
I-746	mp 134-136 ℃ ^{1}H NMR ($CDCl_3$) δ 1.69 (s, 3H), 1.75 (s, 3H), 2.53-2.60 (dt, J = 6.6, 5.7 Hz, 2H), 2.73 (s, 3H), 3.18 (s, 3H), 3.23 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 4.07-4.11 (t, J = 5.7 Hz, 2H), 5.22 (m, 1H), 6.86 (s, 1H), 7.07 (d, J = 9.0 Hz, 1H), 7.35-7.40 (m, 2H), 7.45-7.49 (m, 2H), 7.55-7.61 (m, 2H) IR ($CHCl_3$) 2938, 1614, 1519, 1480, 1448, 1371, 1331, 1294, 1228, 1176, 1150, 1119, 1083, 1004, 970, 870, 849, 819 cm^{-1}
I-747	mp 182-183 ℃ ^{1}H NMR ($CDCl_3$) δ 2.26 (s, 3H), 2.28 (s, 3H), 4.74 (s, 1H), 5.16 (s, 2H), 5.69 (s, 1H), 6.81-6.89 (m, 3H), 6.96-6.99 (m, 2H), 7.10-7.12 (d, J = 4.8 Hz, 2H), 7.23-7.26 (m, 2H), 7.39-7.45 (m, 5H) IR ($CHCl_3$) 3597, 3543, 2924, 2871, 1611, 1587, 1522, 1490, 1455, 1382, 1171, 1126, 1012, 836 cm^{-1}
I-748	mp 158-161 ℃ ^{1}H NMR ($CDCl_3$) δ 2.38 (s, 3H), 2.74 (s, 3H), 3.12 (s, 3H), 3.18 (s, 3H), 3.57 (s, 3H), 3.78 (s, 3H), 5.15 (s, 2H), 6.86 (s, 1H), 7.16 (d, J = 8.7 Hz, 1H), 7.21-7.24 (d, J = 7.8 Hz, 1H), 7.35-7.40 (m, 5H), 7.45-7.49 (m, 2H), 7.52-7.62 (m, 2H) IR ($CHCl_3$) 2939, 1732, 1614, 1519, 1480, 1331, 1294, 1253, 1176, 1150, 1119, 1082, 1003, 970, 869, 816 cm^{-1}

Table 148

I-749	mp 174-176 ℃ ^{1}H NMR (CDCl$_3$) δ 1.75 (s, 3H), 1.79 (s, 3H), 2.58 (s, 3H), 3.52 (s, 3H), 3.53 (s, 3H), 3.78 (s, 3H), 4.62 (d, J = 6.9 Hz, 2H), 5.48-5.55 (m, 1H), 6.83 (s, 1H), 6.99 (d, J = 8.7 Hz, 1H), 7.09 (dd, J = 1.8, 8.1 Hz, 1H), 7.11-7.19 (m, 2H), 7.22 (d, J =1.8 Hz, 1H), 7.57-7.65 (m, 2H) IR (KBr) 2932, 1602, 1519, 1485, 1385, 1368, 1174, 1086, 1015, 986, 848, 804, 527 cm^{-1}
I-750	mp 129-131 ℃ ^{1}H NMR (CDCl$_3$) δ 1.75 (s, 3H), 1.79 (s, 3H), 3.45 (s, 3H), 3.53 (s, 3H), 3.75 (s, 3H), 4.62 (d, J = 6.6 Hz, 2H), 5.24 (s, 2H), 5.50-5.58 (m, 1H), 5.90 (s, 1H), 6.44 (s, 1H), 6.99 (d, J = 8.7 Hz, 1H), 7.08-7.18 (m, 3H), 7.29 (d, J =1.8 Hz, 1H), 7.58-7.64 (m, 2H) IR (KBr) 3361, 2953, 2934, 1522, 1488, 1460, 1391, 1230, 1154, 1121, 1071, 993, 912, 817, 587 cm^{-1}
I-751	mp 148-150 ℃ ^{1}H NMR (CDCl$_3$) δ 1.68 (s, 3H), 1.74 (s, 3H), 2.51-2.60 (m, 5H), 3.53 (s, 6H), 3.77 (s, 3H), 4.02 (t, J = 7.2 Hz, 2H), 5.19-5.25 (m, 3H), 6.83 (s, 1H), 6.98 (d, J = 8.4 Hz, 1H), 7.08 (dd, J = 2.1, 8.4 Hz, 1H), 7.11-7.18 (m, 2H), 7.21(d, J = 2.1 Hz, 1H), 7.57-7.64 (m, 2H) IR (KBr) 2931, 1603, 1519, 1484, 1386, 1370, 1231, 1175, 1086, 1015, 983, 961, 847, 728, 526 cm^{-1}
I-752	mp 99-101 ℃ ^{1}H NMR (CDCl$_3$) δ 1.68 (s, 3H), 1.73 (s, 3H), 2.55 (q, J = 7.2 Hz, 2H), 3.44 (s, 3H), 3.54 (s, 3H), 3.75 (s, 3H), 4.04 (t, J = 7.2 Hz, 2H), 5.20-5.25 (m, 3H), 5.89 (s, 1H), 6.44 (s, 1H), 6.98 (d, J = 8.1 Hz, 1H), 7.09-7.18 (m, 3H), 7.26-7.27 (m, 1H), 7.58-7.63 (m, 2H) IR (KBr) 3349, 2930, 1609, 1523, 1489, 1231, 1152, 1121, 1072, 994, 912, 813, 588 cm^{-1}

Table 149

I-753	mp 115-117 ℃ ^{1}H NMR ($CDCl_3$) δ 1.69 (s, 3H), 1.75 (s, 3H), 2.53 (q, J = 6.9 Hz, 2H), 2.62 (s, 3H), 3.53 (s, 3H), 3.77 (s, 3H), 4.06 (t, J = 6.9 Hz, 2H), 5.18-5.25 (m, 1H), 5.70 (s, 1H), 6.83 (s, 1H), 6.89-6.95 (m, 2H), 7.02 (d, J = 1.2 Hz, 1H), 7.10-7.18 (m, 2H), 7.57-7.65 (m, 2H) IR (KBr) 3545, 2931, 1604, 1520, 1485, 1370, 1249, 1232, 1175, 1084, 1012, 813, 526 cm^{-1}
I-754	^{1}H NMR ($CDCl_3$) δ 1.14 (t, J = 6.9 Hz, 3H), 1.29 (t, J = 6.9 Hz, 3H), 2.50 (s, 3H), 3.19 (s, 3H), 3.71 (q, J = 6.9 Hz, 2H), 4.00 (q, J = 6.9 Hz, 2H), 5.18 (s, 2H), 5.68 (s, 1H), 6.83 (s, 1H), 6.91 (dd, J = 1.8, 8.4 Hz, 1H), 7.00 (d, J = 8.4 Hz, 1H), 7.04 (d, J = 1.8 Hz, 1H), 7.32-7.48 (m, 7H), 7.66-7.74 (m, 2H) IR ($CHCl_3$) 3532, 2976, 1586, 1516, 1468, 1369, 1282, 1174, 1148, 1068, 1016, 967, 907, 871 cm^{-1}
I-755	amorphous powder ^{1}H NMR ($CDCl_3$) δ 1.15 (t, J = 6.9 Hz, 3H), 1.28 (t, J = 6.9 Hz, 3H), 3.59 (q, J = 6.9 Hz, 2H), 3.97 (q, J = 6.9 Hz, 2H), 4.89 (s, 1H), 5.15 (s, 2H), 5.64 (s, 1H), 5.98 (s, 1H), 6.45 (s, 1H), 6.86-6.94 (m, 2H), 6.96-7.04 (m, 2H), 7.12 (d, J = 2.4 Hz, 1H), 7.35-7.56 (m, 7H), IR ($CHCl_3$) 3534, 1610, 1521, 1488, 1383, 1169, 1116, 1064, 1018, 832 cm^{-1}
I-756	mp 126-129 ℃ ^{1}H NMR ($CDCl_3$) δ 1.14 (t, J = 6.9 Hz, 3H), 1.30 (t, J = 6.9 Hz, 3H), 1.76 (s, 3H), 1.81 (s, 3H), 2.69 (s, 3H), 3.20 (s, 3H), 3.23 (s, 3H), 3.72 (q, J = 6.9 Hz, 2H), 4.00 (q, J = 6.9 Hz, 2H), 4.64 (d, J = 6.6 Hz, 2H), 5.49 (m, 1H), 6.84 (s, 1H), 7.08 (d, J = 8.7 Hz, 1H), 7.32-7.42 (m, 4H), 7.56-7.72 (m, 2H) IR ($CHCl_3$) 1609, 1516, 1467, 1369, 1267, 1229, 1175, 1148, 1115, 1069, 968, 907, 871 cm^{-1}

Table 150

I-757	mp 123-135 ℃ (dec.) ^{1}H NMR ($CDCl_3$) δ 1.14 (t, J = 6.9 Hz, 3H), 1.29 (t, J = 6.9 Hz, 3H), 2.37 (s, 3H), 2.64 (s, 3H), 3.12 (s, 3H), 3.20 (s, 3H), 3.71 (q, J = 6.9 Hz, 2H), 4.00 (q, J = 6.9 Hz, 2H), 5.14 (s, 2H), 6.83 (s, 1H), 7.14 (d, J = 8.7 Hz, 1H), 7.18-7.24 (m, 2H), 7.31-7.40 (m, 5H), 7.41 (d, J = 2.1 Hz, 1H), 7.65-7.72 (m, 2H) IR ($CHCl_3$) 1607, 1517, 1467, 1369, 1330, 1268, 1175, 1148, 1116, 1069, 1026, 967, 907, 871 cm^{-1}
I-758	amorphous powder ^{1}H NMR ($CDCl_3$) δ 1.15 (t, J = 6.9 Hz, 3H), 1.28 (t, J = 6.9 Hz, 3H), 1.76 (s, 3H), 1.82 (d, J = 0.6 Hz, 3H), 3.59 (q, J = 6.9 Hz, 2H), 3.97 (q, J = 6.9 Hz, 2H), 4.61 (d, J = 6.9 Hz, 2H), 4.87 (s, 1H), 5.53 (m, 1H), 5.66 (s, 1H), 5.97 (s, 1H), 6.45 (s, 1H), 6.86-7.00 (m, 4H), 7.09 (d, J = 1.8 Hz, 1H), 7.50-7.57 (m, 2H) IR ($CHCl_3$) 3528, 2978, 1611, 1521, 1487, 1412, 1383, 1168, 1115, 1064, 905, 831 cm^{-1}
I-759	amorphous powder ^{1}H NMR ($CDCl_3$) δ 1.15 (t, J = 6.9 Hz, 3H), 1.27 (t, J = 6.9 Hz, 3H), 2.39 (s, 3H), 3.59 (q, J = 6.9 Hz, 2H), 3.97 (q, J = 6.9 Hz, 2H), 4.88 (s, 1H), 5.10 (s, 2H), 5.64 (s, 1H), 5.97 (s, 1H), 6.45 (s, 1H), 6.97-7.01 (m, 2H), 7.11 (d, J = 1.5 Hz, 1H), 7.20-7.26 (m, 2H), 7.32-7.37 (m, 2H), 7.50-7.56 (m, 2H) IR ($CHCl_3$) 3526, 2974, 1612, 1520, 1488, 1412, 1383, 1285, 1246, 1116, 1065, 1027, 870 cm^{-1}
I-760	mp 169-171 ℃ ^{1}H NMR ($CDCl_3$) δ 2.71 (s, 3H), 3.01 (s, 3H), 3.10 (s, 3H), 3.21 (s, 3H), 3.36 (s, 3H), 3.56 (s, 3H), 3.77 (s, 3H), 4.83 (s, 2H),6.84 (s, 1H), 7.05 (d, J = 8.4 Hz, 1H), 7.32 (dd, J = 2.1, 8.4 Hz, 1H), 7.36-7.42 (m, 2H), 7.42 (d, J = 2.1 Hz, 1H), 7.65-7.72 (m, 2H) IR ($CHCl_3$) 1666, 1517, 1479, 1368, 1175, 1148, 1119, 1083, 1014, 968, 871 cm^{-1}

Table 151

I-761	mp 175-177 ℃ ^{1}H NMR (DMSO-d_6) δ 1.70 (s, 6H), 3.67-3.73 (m, 2H), 3.71 (s, 3H), 3.72 (s, 3H), 4.59 (br , 1H), 5.27-5.31 (m, 1H), 6.50 (d, J = 8.1 Hz, 1H), 6.77-6.95 (m, 6H), 7.34-7.40 (m, 2H), 9.23 (br s, 1H), 9.42 (br s, 1H) IR (KBr) 3600-2400(br), 1609, 1522, 1492, 1463, 1384, 1263, 1208, 1174, 1129, 1055, 1033 cm^{-}
I-762	mp 151-153 ℃ ^{1}H NMR (CDCl$_3$) δ 1.78 (s, 3H), 1.85 (s, 3H), 3.78 (s, 3H), 3.80 (s, 3H), 4.72 (d, J = 6.9 Hz, 2H), 5.39-5.44 (m, 1H), 6.53 (d, J = 3.0 Hz, 1H), 6.95 (s, 1H), 7.05 (s, 1H), 7.09-7.16 (m, 3H), 7.38 (d, J = 8.7 Hz, 1H), 7.45 (dd, J = 1.8, 8.7 Hz, 1H), 7.54-7.60 (m, 2H), 7.80 (d, J = 1.8 Hz, 1H), IR (KBr) 3600-2800(br), 1509, 1496, 1481, 1462, 1447, 1383, 1207, 1158, 1051 cm^{-1}
I-763	mp 138-139 ℃ ^{1}H NMR (CDCl$_3$) δ 3.78 (s, 3H), 3.79 (s, 3H), 6.64 (dd, J = 0.9, 2.7 Hz, 1H), 6.80 (d, J = 7.8 Hz, 1H), 6.94 (s, 1H), 7.04 (s, 1H), 7.09-7.21 (m, 3H), 7.25-7.27 (m, 1H), 7.32 (d, J = 8.7 Hz, 1H), 7.42 (dd, J = 1.8, 8.4 Hz, 1H), 7.53-7.59 (m, 3H), 8.60-8.63 (m, 1H) IR (KBr) 3600-2800(br), 1590, 1510, 1497, 1478, 1430, 1384, 1209, 1158, 1053, 1026 cm^{-1}
I-764	mp 172-174 ℃ ^{1}H NMR (CDCl$_3$) δ 2.32 (s, 3H), 3.78 (s, 3H), 3.79 (s, 3H), 5.30 (s, 2H), 6.59 (d, J = 3.3 Hz, 1H), 6.94 (s, 1H), 7.04 (s, 1H), 7.04-7.15 (m, 7H), 7.34 (d, J = 8.4 Hz, 1H), 7.41 (dd, J = 1.8, 8.7 Hz, 1H), 7.55-7.59 (m, 2H), 7.82-7.83 (m, 1H) IR (KBr) 3600-2800(br), 1516, 1497, 1482, 1466, 1382, 1306, 1219, 1209, 1159, 1051, 1026 cm^{-1}
I-765	mp 134-136 ℃ ^{1}H NMR (DMSO-d_6) δ 1.70 (s, 3H), 1.71 (s, 3H), 3.72-3.74 (m, 2H), 3.73 (s, 3H), 3.74 (s, 3H), 5.25 (br s, 1H), 5.50-5.58 (m, 1H), 6.66-6.72 (m, 1H), 6.78-6.83 (m, 1H), 6.92 (s, 3H), 6.95 (s, 3H), 7.19-7.29 (m, 2H), 7.30-7.39 (m, 2H), 9.45 (br s, 3H), IR (KBr) 3600-2800(br), 1624, 1610, 1526, 1494, 1461, 1382, 1255, 1208, 1175, 1120, 1054, 1031 cm^{-1}

Table 152

I-766	mp 166-168 ℃ ^{1}H NMR ($CDCl_3$) δ 2.40 (s, 3H), 3.77 (s, 6H), 4.82 (s, 1H), 6.71 (d, J = 2.4 Hz, 1H), 6.86-6.93 (m, 4H), 7.22-7.32 (m, 4H), 7.43-7.48 (m, 2H), 7.58-7.64 (m, 1H), 7.71-7.75 (m, 2H) IR (KBr) 3600-2800(br), 1611, 1524, 1492, 1382, 1336, 1265, 1209, 1162, 1090, 1053, 1030 cm^{-1}
I-767	mp 139-140 ℃ ^{1}H NMR ($CDCl_3$) δ 3.78 (s, 3H), 3.80 (s, 3H), 6.60-6.62 (m, 1H), 6.95 (s, 1H), 7.05 (s, 1H), m), 7.08-7.16 (m, 2H), 7.23-7.26 (m, 1H), 7.45 (d, J = 1.2 Hz, 2H), 7.54-7.61 (m, 2H), 7.83 (d, J = 0.6 Hz, 1H), 8.18 (br s, 1H) IR (KBr) 3600-2800(br), 1520, 1497, 1465, 1448, 1414, 1383, 1313, 1218, 1205, 1159, 1048, 1024 cm^{-1}
I-768	^{1}H NMR ($CDCl_3$) δ 2.26 (s, 3H), 3.48 (s, 3H), 3.75 (s, 3H), 5.16 (s, 2H), 5.69 (s, 1H), 5.89 (s, 1H), 6.45 (s, 1H), 6.94 (d.d, J = 8.4 & 2.1Hz, 1H), 7.02 (d, J = 8.4Hz, 1H), 7.08 (d, J = 2.1Hz, 1H), 7.35 - 7.50 (m, 8H), 8.36 - 8.44 (m, 1H) IR (KBr) 3384, 1592, 1525, 1487, 1455, 1397, 1312, 1250, 1122, 1102, 1069, 1011cm^{-1}
I-769	^{1}H NMR ($CDCl_3$) δ 2.26 (s, 3H), 2.68 (s, 3H), 3.13 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 5.19 (s, 2H), 6.84 (s, 1H), 7.15 (d, J = 8.4 Hz, 1H), 7.30 - 7.51 (m, 10H), 8.37 - 8.47 (m, 1H) IR (KBr)3384, 1704, 1590, 1524, 1481, 1389, 1357, 1272, 1240, 1174, 1114, 1082,1017cm^{-1}
I-770	^{1}H NMR ($CDCl_3$) δ 2.67 (s, 3H), 2.84 (s, 3H), 3.28 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 6.26 (s, 1H), 6.85 (s, 1H), 7.17 (d, J = 9.0 Hz, 1H), 7.24 - 7.33 (m, 2H), 7.35 - 7.50 (m, 3H), 8.37 - 8.50 (m, 1H) IR (KBr)3383, 1674, 1595, 1526, 1482, 1363, 1177, 1078, 1012cm^{-1}
I-771	^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.26 (s, 3H), 2.72 (s, 3H), 3.23 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 4.64 (d, J = 7.2 Hz, 2H), 5.44 - 5.53 (m, 1H), 6.84 (s, 1H), 7.09 (.d, J = 8.4 Hz, 1H), 7.30 - 7.53 (m, 5H), 8.38 - 8.47 (m, 1H) IR (KBr) 3376, 1697, 1594, 1524, 1481, 1365, 1270, 1239, 1177, 1112, 1079, 1013cm^{-1}

Table 153

I-772	^{1}H NMR ($CDCl_3$) δ 2.26 (s, 3H), 2.38 (s, 3H), 2.68 (s, 3H), 3.12 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 5.14 (s, 2H), 6.84 (s, 1H), 7.12 - 7.50 (m, 9H), 8.35 - 8.44 (m, 1H) IR(KBr)3365, 1693, 1622, 1591, 1526, 1477, 1374, 1314, 1291, 1180, 1165,1111, 1078cm^{-1}
I-773	^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 2.26 (s, 3H), 3.48 (s, 3H), 3.75 (s, 3H), 4.62 (d, J = 6.9 Hz, 2H), 5.46 - 5.58 (m, 1H), 5.71 (s, 1H), 5.86 (s, 1H), 6.44 (s, 1H), 6.87 - 7.00 (m, 2H), 7.05 (.d, J = 1.8 Hz, 1H), 7.33 - 7.52 (m, 3H), 8.36 - 8.47 (m, 1H) IR (KBr) 1737, 1604, 1519, 1482, 1392, 1366, 1267, 1173, 1131, 1084, 1062, 1009cm^{-1}
I-774	^{1}H NMR ($CDCl_3$) δ :2.25 (s, 3H), 2.38 (s, 3H), 3.48 (s, 3H), 3.75 (s, 3H), 5.10 (s, 2H), 5.12 (brs, 1H), 5.90 (s, 1H), 6.44 (s, 1H), 6.94 (.d.d, J = 8.4 &1.8 Hz, 1H), 7.02 (.d, J = 8.4 Hz, 1H), 7.06 (.d, J = 1.8 Hz, 1H), 7.18 - 7.52 (m, 6H), 8.35 - 8.44 (m, 1H) IR (KBr) 1686, 1590, 1524, 1488, 1398, 1314, 1257, 1102, 1068, 1008 cm^{-1}
I-775	^{1}H NMR ($CDCl_3$) δ 3.47 (s, 3H), 3.76 (s, 3H), 5.16 (s, 2H), 5.71 (s, 1H), 5.82 (s, 1H), 6.45 (s, 1H), 6.97 (d.d, J = 8.4 & 2.1Hz, 1H), 7.04 (d, J = 8.4Hz, 1H), 7.07 (d, J = 2.1Hz, 1H), 7.22 - 7.30 (m, 1H), 7.33 - 7.49 (m, 5H), 7.92 - 7.98 (m, 1H), 8.09 - 8.14 (m, 1H), 10.44 (s, 1H) IR (KBr) 3492,3459, 1692, 1605, 1518, 1486, 1388, 1294, 1238, 1200, 1115, 1100, 1070,1008cm^{-1}
I-776	^{1}H NMR ($CDCl_3$) δ 2.35 (d, J = 1.8Hz, 3H), 2.68 (s, 3H), 3.13 (s, 3H), 3.23 (s, 3H), 3.78 (s, 3H), 5.19 (s, 2H), 6.82 (s, 1H), 7.04 - 7.17 (m, 2H), 7.30 - 7.49 (m, 9H) IR (KBr) 1606, 1518, 1478, 1364, 1295, 1271, 1240, 1182, 1118, 1087, 1077, 1017cm^{-1}
I-777	^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.35 (s, 3H), 2.72 (s, 3H), 3.23 (s, 3H), 3.53 (s, 3H), 3.78 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.45 - 5.53 (m, 1H), 6.82 (s, 1H), 7.03 - 7.14 (m, 2H), 7.32 - 7.47 (m, 4H) IR (KBr) 1607, 1520, 1482, 1374, 1363, 1240, 1179, 1115, 1079cm^{-1}

Table 154

I-778	^{1}H NMR ($CDCl_3$) δ 2.35 (d, J = 1.2Hz, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 5.15 (s, 2H), 5.68 (s, 1H), 5.90 (s, 1H), 6.43 (s, 1H), 6.92 - 7.12 (m, 4H), 7.31 - 7.50 (m, 7H) IR (KBr) 3536,3398, 1609, 1587, 1518, 1487, 1244, 1192, 1110, 1071, 1010cm^{-1}
I-779	^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 2.35 (s, 3H), 3.45 (s, 3H), 3.74 (s, 3H), 4.61 (d, J = 6.9 Hz, 2H), 5.43 - 5.60 (m, 1H), 6.43 (s, 1H), 6.87 - 7.15 (m, 4H), 7.36 - 7.51 (m, 2H) IR (KBr) 3512,3444, 1611, 1585, 1518, 1488, 1462, 1447, 1416, 1305, 1288, 1243, 1207, 1112, 1103, 1070, 1012cm^{-1}
I-780	^{1}H NMR ($CDCl_3$) δ 3.45 (s, 3H), 3.75 (s, 3H), 4.84 (s, 2H), 5.15 (s, 2H), 5.70 (s, 1H), 5.88 (s, 1H), 6.44 (s, 1H), 6.91 - 7.20 (m, 4H), 7.32 - 7.48 (m, 5H), 7.52 - 7.61 (m, 1H), 7.64 - 7.74 (m, 1H) IR (KBr)3523,3428, 1610, 1587, 1516, 1482, 1463, 1400, 1321, 1285, 1238, 1187, 1106cm^{-1}
I-781	^{1}H NMR ($CDCl_3$) δ 2.68 (s, 3H), 3.13 (s, 3H), 3.54 (s, 3H), 3.78 (s, 3H), 5.19 (s, 2H), 5.44 (d.d, J = 18 & 0.6Hz, 1H), 5.90 (d.d, J = 18 & 0.9Hz, 1H), 6.84 (s, 1H), 6.86 - 6.98 (m, 1H), 7.09 - 7.18 (m, 2H), 7.31 - 7.52 (m, 8H), 7.71 (d.d, J = 7.2 & 2.4 Hz, 1H) IR (KBr) 1608, 1518, 1479, 1365, 1235, 1177, 1118, 1079, 1013cm^{-1}
I-782	^{1}H NMR ($CDCl_3$) δ 1.59 (d, J = 6.3Hz, 3H), 2.68 (s, 3H), 3.13 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 5.19 (s, 2H), 5.21 - 5.30 (m, 1H), 6.84 (s, 1H), 7.08 - 7.17 (m, 3H), 7.32 - 7.56 (m, 7H), 7.69 - 7.75 (m, 1H) IR (KBr) 3543,3433, 1609, 1518, 1480, 1364, 1235, 1178, 1117, 1078, 1014cm^{-1}
I-783	^{1}H NMR ($CDCl_3$) δ 1.59 (d, J = 6.0Hz, 3H), 2.01 (brs, 1H), 3.47 (s, 3H), 3.76 (s, 3H), 5.16 (s, 2H), 5.15 - 5.30 (m, 1H), 5.72 (s, 1H), 5.91 (s, 1H), 6.46 (s, 1H), 6.89 - 7.16 (m, 4H), 7.30 - 7.60 (m, 6H), 7.68 - 7.85 (m, 1H) IR(KBr)3467, 1613, 1586, 1517, 1484, 1455, 1421, 1395, 1287, 1238, 1111,1070, 1010cm^{-1}

Table 155

I-784	^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.81 (s, 3H), 3.23 (s, 3H), 3.81 (s, 6H), 4.64 (d, J = 6.6 Hz, 2H), 5.47 - 5.54 (m, 1H), 6.91 (s, 1H), 6.96 (s, 1H), 7.06 (.d, J = 8.4 Hz, 1H), 7.49 (d.d, J = 8.4 & 2.1 Hz, 1H), 7.58 (d, J = 2.1Hz, 1H), 7.60 - 7.74 (m, 4H) IR (KBr) 2228, 1610, 1490, 1348, 1295, 1266, 1209, 1174, 1112, 1056, 1038, 1000cm^{-1}
I-785	mp169-170 ℃ ^{1}H NMR ($CDCl_3$) δ 2.07 (s, 6H), 3.20 (s, 3H), 5.16 (s, 2H), 5.71 (brs, 1H), 6.97-7.45 (m, 14H) IR(KBr) 3357, 3023, 2933, 1698, 1516, 1478, 1362, 1260, 1227, 1152, 1132, 962, 869 cm^{-1}
I-786	mp169-170 ℃ ^{1}H NMR ($CDCl_3$) δ 2.13 (s, 6H), 3.11 (s, 3H), 3.18 (s, 3H), 5.18 (s, 2H), 7.09-7.47 (m, 12H), 7.64 (d, J = 9.0 Hz, 2H) IR(KBr) 3434, 3035, 2938, 1516, 1474, 1362, 1290, 1197, 1182, 1174, 1149, 1114, 973, 857, 842 cm^{-1}
I-787	mp156-157 ℃ ^{1}H NMR ($CDCl_3$) δ 2.08 (s, 6H), 3.12 (s, 3H), 3.21 (s, 3H), 5.18 (s, 2H), 7.12-7.58 (m, 14H) IR(KBr) 3494, 3292, 3033, 2934, 1753, 1712, 1517, 1478, 1358, 1294, 1261, 1173, 1151, 967, 870 cm^{-1}
I-788	mp105-106 ℃ ^{1}H NMR ($CDCl_3$) δ 1.75 (s, 3H), 1.85 (s, 3H), 2.12 (s, 6H), 3.18 (s, 3H), 3.22 (s, 3H), 4.64 (d, J = 7.0 Hz, 2H), 5.52 (t, J = 6.8 Hz, 1H), 7.08 (s, 1H), 7.16-7.38 (m, 6H), 7.64 (d, J = 8.8 Hz, 2H) IR(KBr) 3434, 2934, 1514, 1474 1362, 1285, 1152, 1113, 971, 916, 861, 845 cm^{-1}
I-789	mp148-149 ℃ ^{1}H NMR ($CDCl_3$) δ 2.12 (s, 6H), 2.39 (s, 3H), 3.10 (s, 3H), 3.18 (s, 3H), 5.13 (s, 2H), 7.10-7.38 (m, 11H), 7.64 (d, J = 8.6 Hz, 2H) IR(KBr) 3435, 3027, 2931, 1678, 1516, 1475, 1362, 1288, 1182, 1151, 1113, 969, 916, 861 cm^{-1}

Table 156

I-790	mp139-140 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 2.14 (s, 6H), 2.46-2.58 (m, 2H), 3.14 (s, 3H), 3.19 (s, 3H), 4.07 (d, J = 7.0 Hz, 2H), 5.16-5.23 (m, 1H), 7.05 (s, 1H), 7.14-7.41 (m, 6H), 7.66 (d, J = 8.4 Hz, 2H) IR(KBr) 3433, 2946, 1514, 1467, 1360, 1282, 1180, 1152, 1115, 868 cm^{-1}
I-791	mp123-124 ℃ ^{1}H NMR (DMSO-d_6) δ 1.72 (s, 3H), 1.77 (s, 3H), 2.03 (s, 6H), 4.56 (d, J = 6.6 Hz, 2H), 5.50 (t, J = 6.0 Hz, 1H), 6.49 (d, J = 9.6 Hz, 1H), 6.55 (s, 1H), 6.83 (d, J = 8.4 Hz, 2H), 6.98 (d, J = 8.1 Hz, 1H), 7.27 (s, 2H), 7.48 (d, J = 5.6 Hz, 2H), 8.92 (brs, 1H), 9.48 (brs, 1H) IR(KBr) 3337, 2930, 1612, 1518, 1471, 1285, 1258, 1207, 1123, 999, 834 cm^{-1}
I-792	mp230-231 ℃ ^{1}H NMR (DMSO-d_6) δ 2.04 (s, 6H), 2.33 (s, 3H), 5.09 (s, 2H), 6.50 (d, J = 8.4 Hz, 1H), 6.59 (s, 1H), 6.85 (d, J = 8.1 Hz, 2H), 7.04 (d, J = 5.4 Hz, 1H), 7.23 (d, J = 7.5 Hz, 2H), 7.29 (s, 1H), 7.41 (d, J = 7.8 Hz, 2H), 7.49 (d, J = 8.7 Hz, 2H), 9.05 (brs, 1H), 9.50 (brs, 1H) IR(KBr) 3287, 1609, 1519, 1475, 1298, 1245, 1126, 1006, 841 cm^{-1}
I-793	mp118-119 ℃ ^{1}H NMR (DMSO-d_6) δ 1.64 (s, 3H), 1.70 (s, 3H), 2.03 (s, 6H), 2.42-2.50 (m, 2H), 3.96 (t, J = 6.9 Hz, 2H), 5.27 (t, J = 7.2 Hz, 2H), 6.49 (d, J = 8.1 Hz, 1H), 6.55 (s, 1H), 6.84 (d, J = 8.4 Hz, 2H), 6.96 (d, J = 8.1 Hz, 1H), 7.27 (s, 2H), 7.48 (d, J = 8.7 Hz, 2H), 8.89 (brs, 1H), 9.48 (brs, 1H) IR(KBr) 3392, 2928, 1610, 1519, 1466, 1250, 1230, 1205, 1178, 1128, 1031, 834, 808 cm^{-1}
I-794	mp139-140 ℃ ^{1}H NMR (DMSO-d_6) δ 1.75 (s, 3H), 1.77 (s, 3H), 2.50 (s, 6H), 3.39 (s, 3H), 3.44 (s, 3H), 4.69 (d, J = 6.2 Hz, 2H), 5.50 (t, J = 6.6 Hz, 1H), 7.29-7.33 (m, 3H), 7.41-7.47 (m, 4H), 7.59-7.68 (m, 2H) IR(KBr) 3433, 2933, 1675, 1516, 1473, 1366, 1358, 1292, 1259, 1182, 1172, 1151, 969, 873 cm^{-1}

Table 157

I-795	mp151-152 ℃ ^{1}H NMR (DMSO-d_6) δ 2.05 (s, 6H), 2.18 (s, 3H), 3.36 (s, 3h), 3.44 (s, 3H), 5.22 (s, 2H), 7.08-7.63 (m, 13H) IR(KBr) 3434, 3023, 2928, 1517, 1477, 1368, 1293, 1261, 1183, 1152, 966, 870 cm^{-1}
I-796	mp159-160 ℃ ^{1}H NMR (DMSO-d_6) δ 1.65 (s, 3H), 1.70 (s, 3H), 2.05 (s, 6H), 2.48-2.53 (m, 2H), 3.38 (s, 3H), 3.44 (s, 3H), 4.10 (t, J = 7.4 Hz, 2H), 5.21-5.27 (m, 1H), 7.28-7.34 (m, 3H), 7.41-7.47 (m, 4H), 7.59-7.64 (m, 2H) IR(KBr) 3434, 2938, 1519, 1478, 1439, 1362, 1295, 1269, 1173, 1152, 1125, 960, 870, 839 cm^{-1}
I-797	mp130-131 ℃ ^{1}H NMR (DMSO-d_6) δ 1.72 (s, 3H), 1.75 (s, 3H), 2.02 (s, 6H), 4.59 (d, J = 6.4 Hz, 2H), 5.48 (t, J = 7.2 Hz, 1H), 6.81-7.07 (m, 7H), 7.25 (s, 2H), 8.96 (brs, 1H), 9.41 (brs, 1H) IR(KBr) 3392, 1608, 1589, 1518, 1475, 1322, 1258, 1170, 1127, 974, 836, 808 cm^{-1}
I-798	mp143-144 ℃ ^{1}H NMR (DMSO-d_6) δ 2.03 (s, 6H), 2.32 (s, 3H), 5.12 (s, 2H), 6.82-7.41 (m, 13H), 9.10 (brs, 1H), 9.41 (brs, 1H) IR(KBr) 3344, 1609, 1521, 1427, 1255, 1236, 1205, 1129, 998, 832, 806, 792 cm^{-1}
I-799	mp163-164 ℃ ^{1}H NMR (DMSO-d_6) δ 1.87 (s, 3H), 1.90 (s, 3H), 3.42 (s, 3H), 5.15 (s, 2H), 6.88-7.03 (m, 4H), 7.24-7.58 (m, 9H), 7.97 (brs, 1H), 9.02 (brs, 1H) IR(KBr) 3563, 3476, 3001, 2922, 1698, 1527, 1512, 1476, 1359, 1303, 1261, 1237, 1210, 1195, 1167, 1146, 871 cm^{-1}
I-800	^{1}H NMR ($CDCl_3$) δ 1.30 (d, J = 6.6Hz, 6H), 2.58 (s, 3H), 2.97 (quintet, J = 6.6Hz, 1H), 3.54 (s, 3H), 3.77 (s, 3H), 5.17 (s, 2H), 6.87 (s, 1H), 7.11 (d, J = 9.0 Hz, 1H), 7.22 - 7.35 (m, 8H), 7.47 - 7.68 (m, 6H), 8.19 - 8.25 (m, 2H) IR (KBr) 1737, 1604, 1519, 1482, 1392, 1366, 1267, 1173, 1131, 1084, 1062, 1009cm^{-1}

Table 158

I-801	^{1}H NMR ($CDCl_3$) δ 2.56 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 5.17 (s, 2H), 5.69 (s, 1H), 6.84 (s, 1H), 6.91 (d.d, J = 8.4 & 1.8 Hz, 1H), 7.02 (d, J = 8.4 Hz, 1H), 7.04 (d, J = 1.8Hz, 1H), 7.04 - 7.14 (m, 1H), 7.33 - 7.47 (m, 8H) IR(KBr)3446, 1613, 1585, 1522, 1477, 1396, 1357, 1291, 1243, 1204, 1174, 1076,1017, 1006cm^{-1}
I-802	foam ^{1}H NMR ($CDCl_3$) δ 2.82 (s, 3H), 3.22 (s, 3H), 3.25 (s, 3H), 3.26 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 5.48 (s, 2H), 6.85 (s, 1H), 7.27 (d, J = 8.4 Hz, 1H), 7.39 (d, J = 8.7 Hz, 2H), 7.40 (dd, J = 8.4, 2.1 Hz, 1H), 7.43 (d, J = 2.1 Hz, 1H), 7.67 (d, J = 8.7 Hz, 2H) IR (Nujol) 1608, 1519, 1480, 1462, 1365, 1176, 1151, 1079, 970, 876, 798 cm^{-1}
I-803	foam ^{1}H NMR (CD3OD) δ 3.28 (s, 3H), 3.68 (s, 3H), 5.17 (s, 2H), 6.43 (s, 1H), 6.81 (dd, J = 8.4, 2.1 Hz, 1H), 6.85 (d, J = 8.7 Hz, 2H), 6.89 (d, J = 2.1 Hz, 1H), 7.03 (d, J = 8.4 Hz, 1H), 7.46 (d, J = 8.7 Hz, 2H) IR (Nujol) 3342, 1611, 1592, 1523, 1488, 1460, 1251, 1225, 1114, 1072, 1012, 941, 826, 756 cm^{-1}
I-804	mp 150-152℃ ^{1}H NMR (DMSO-d_6) δ 3.31 (s, 3H), 3.64 (s, 3H), 5.00 (s, 2H), 6.39 (s, 1H), 6.66 (dd, J = 8.4, 2.1 Hz, 1H), 6.79 (d, J = 2.1 Hz, 1H), 6.84 (d, J = 8.7 Hz, 2H), 6.98 (d, J = 8.4 Hz, 1H), 7.44 (d, J = 8.7 Hz, 2H) IR (Nujol) 3459, 3291, 1612, 1594, 1522, 1489, 1458, 1257, 1226, 1101, 1073, 1011, 960, 823 cm^{-1}
I-805	mp 190-192℃ ^{1}H NMR (DMSO-d_6) δ 2.88 (s, 3H), 3.41 (s, 3H), 3.45 (s, 3H), 3.52 (s, 3H), 3.79 (s, 3H), 5.43 (s, 2H), 7.08 (s, 1H), 7.16 (s, 1H), 7.32~7.36 (m, 2H), 7.46 (d, J = 8.4 Hz, 1H), 7.49 (d, J = 8.7 Hz, 2H), 7.53~7.64 (m, 3H), 7.74 (d, J = 8.7 Hz, 2H), 7.88 ~7.91 (m, 2H) IR (Nujol) 1604, 1519, 1481, 1462, 1367, 1175, 1081, 1009, 878, 841, 816, 801 cm^{-1}

Table 159

I-806	foam ^{1}H NMR ($CDCl_3$) δ 3.45 (s, 3H), 3.74 (s, 3H), 5.31 (s, 2H), 6.94 (s, 1H), 6.45 (s, 1H), 6.64 (s, 1H), 6.93 (d, J = 8.7 Hz, 2H), 6.98 (dd, J = 8.4, 2.1 Hz, 1H), 7.09 (d, J = 8.4 Hz, 1H), 7.11 (d, J = 2.1 Hz, 1H), 7.46~7.50 (m, 3H), 7.53 (d, J = 8.7 Hz, 2H), 7.78~7.82 (m, 2H) IR (Nujol) 3367, 1612, 1592, 1523, 1489, 1455, 1253, 1226, 1115, 1073, 1013, 942, 816, 767 cm^{-1}
I-807	foam ^{1}H NMR ($CDCl_3$) δ 2.76 (s, 3H), 3.21 (s, 3H), 3.30 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 5.38 (s, 2H), 6.84 (s, 1H), 7.21 (d, J = 8.4 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.38 (dd, J = 8.4, 2.1 Hz, 1H), 7.45 (d, J = 2.1 Hz, 1H), 7.67 (d, J = 8.7 Hz, 2H), 8.80 (s, 1H) IR (Nujol) 1608, 1519, 1480, 1463, 1365, 1177, 1151, 1079, 971, 876, 798 cm^{-1}
I-808	mp 193-195℃ ^{1}H NMR ($CDCl_3$) δ 2.64 (s, 3H), 2.74 (s, 3H), 3.21 (s, 3H), 3.30 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 5.28 (s, 2H), 6.84 (s, 1H), 7.21 (d, J = 8.4 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.38 (dd, J = 8.4, 2.1 Hz, 1H), 7.44 (d, J = 2.1 Hz, 1H), 7.68 (d, J = 8.7 Hz, 2H) IR (Nujol) 1606, 1591, 1522, 1480, 1463, 1359, 1174, 1152, 1079, 1012, 946, 877, 834, 796 cm^{-1}
I-809	foam ^{1}H NMR ($CDCl_3$) δ 1.42 (t, J = 7.5 Hz, 3H), 2.73 (s, 3H), 2.96 (q, J = 7.5 Hz, 2H), 3.21 (s, 3H), 3.31 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 5.28 (s, 2H), 6.84 (s, 1H), 7.21 (d, J = 8.4 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.38 (dd, J = 8.4, 2.1 Hz, 1H), 7.44 (d, J = 2.1 Hz, 1H), 7.68 (d, J = 8.7 Hz, 2H) IR (KBr) 3434, 1609, 1579, 1519, 1481, 1365, 1177, 1151, 1080, 970, 876, 797 cm^{-1}

Table 160

I-810	foam ^{1}H NMR ($CDCl_3$) δ 2.71 (s, 3H), 3.21 (s, 3H), 3.35 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 5.38 (s, 2H), 6.84 (s, 1H), 7.25 (d, J = 8.4 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.40 (dd, J = 8.4, 2.1 Hz, 1H), 7.46 (d, J = 2.1 Hz, 1H), 7.54~7.64 (m, 3H), 7.68 (d, J = 8.7 Hz, 2H), 8.12~8.16 (m, 2H) IR (KBr) 3433, 1609, 1561, 1519, 1480, 1365, 1177, 1151, 1081, 971, 876, 798 cm^{-1}
I-811	foam ^{1}H NMR ($CDCl_3$) δ 2.51 (s, 3H), 2.54 (s, 3H), 2.63 (s, 3H), 2.72 (s, 3H), 3.16 (s, 3H), 3.21 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 5.27 (s, 2H), 6.84 (s, 1H), 7.27 (d, J = 8.4 Hz, 1H), 7.36 (dd, J = 8.4, 2.1 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.41 (d, J = 2.1 Hz, 1H), 7.68 (d, J = 8.7 Hz, 2H) IR (KBr) 3435, 1614, 1519, 1480, 1364, 1177, 1151, 1080, 972, 876, 798 cm^{-1}
I-812	foam ^{1}H NMR ($CDCl_3$) δ 2.74 (s, 6H), 3.17 (s, 3H), 3.21 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 5.35 (s, 2H), 6.84 (s, 1H), 7.28 (d, J = 8.4 Hz, 1H), 7.36 (dd, J = 8.4, 2.1 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.41 (d, J = 2.1 Hz, 1H), 7.68 (d, J = 8.7 Hz, 2H), 8.41 (d, J = 2.4 Hz, 1H), 8.50 (d, J = 2.4 Hz, 1H) IR (KBr) 3433, 1609, 1519, 1481, 1364, 1177, 1151, 1080, 971, 876, 798 cm^{-1}
I-813	foam ^{1}H NMR (DMSO-d_6) δ 2.47 (s, 6H), 2.55 (s, 3H), 3.30 (s, 3H), 3.64 (s, 3H), 5.16 (s, 2H), 6.39 (s, 1H), 6.66 (dd, J = 8.4, 2.1 Hz, 1H), 6.76 (d, J = 2.1 Hz, 1H), 6.84 (d, J = 8.7 Hz, 2H), 7.03 (d, J = 8.4 Hz, 1H), 7.44 (d, J = 8.7 Hz, 2H), IR (KBr) 3399, 3165, 1611, 1521, 1488, 1406, 1362, 1213, 1114, 1069, 1014, 818, 759 cm^{-1}

Table 161

I-814	mp 240-241℃ ^{1}H NMR (DMSO-d_6) δ 2.66 (s, 3H), 3.30 (s, 3H), 3.64 (s, 3H), 5.26 (s, 2H), 6.39 (s, 1H), 6.66 (dd, J = 8.4, 2.1 Hz, 1H), 6.77 (d, J = 2.1 Hz, 1H), 6.84 (d, J = 8.7 Hz, 2H), 7.02 (d, J = 8.4 Hz, 1H), 7.44 (d, J = 8.7 Hz, 2H), 8.48 (d, J = 2.7 Hz, 1H), 8.53 (d, J = 2.7 Hz, 1H) IR (Nujol) 3513, 3491, 3070, 1610, 1581, 1523, 1488, 1459, 1408, 1275, 1236, 1216, 1111, 1065, 1040, 821, 785 cm^{-1}
I-815	mp 288-290℃ (decomp.) ^{1}H NMR (DMSO-d_6) δ 2.89 (s, 3H), 3.41 (s, 3H), 3.45 (s, 3H), 3.52 (s, 3H), 3.79 (s, 3H), 4.95 (s, 2H), 5.65 (s, 1H), 7.08 (s, 1H), 7.26 (d, J = 8.4 Hz, 1H), 7.33 (dd, J = 8.4, 2.1 Hz, 1H), 7.38 (d, J = 2.1 Hz, 1H), 7.49 (d, J = 8.7 Hz, 2H), 7.74 (d, J = 8.7 Hz, 2H), IR (Nujol) 3120, 1712, 1671, 1604, 1516, 1480, 1462, 1364, 1172, 1078, 1015, 970, 874, 841, 796 cm^{-1}
I-816	mp 204-206℃ ^{1}H NMR (DMSO-d_6) δ 2.87 (s, 3H), 3.45 (s, 3H), 3.46 (s, 3H), 3.52 (s, 3H), 3.78 (s, 3H), 5.40 (s, 2H), 7.08 (s, 1H), 7.32 (dd, J = 8.4, 2.1 Hz, 1H), 7.33 (d, J = 8.4 Hz, 1H), 7.39 (d, J = 2.1 Hz, 1H), 7.48 (d, J = 8.7 Hz, 2H), 7.71 (dd, J = 5.1, 1.2 Hz, 1H), 7.74 (d, J = 8.7 Hz, 2H), 8.88 (d, J = 5.1 Hz, 1H), 9.21 (d, J = 1.2 Hz, 1H) IR (Nujol) 1608, 1586, 1557, 1521, 1480, 1464, 1360, 1352, 1176, 1156, 1078, 884, 835, 818, 799 cm^{-1}
I-817	foam ^{1}H NMR ($CDCl_3$) δ 2.20 (s, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 5.15 (s, 2H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.94 (dd, J = 1.8, 8.4 Hz, 1H), 6.98 (d, J = 8.4 Hz, 1H), 7.09 (d, J = 1.8 Hz, 1H), 7.18 (m, 1H), 7.37 (t, J = 7.2 Hz, 1H), 7.53 (d, J = 8.7 Hz, 2H), 7.55 (m, 2H)

Table 162

I-818	m.p 163-166 ℃ ^{1}H NMR ($CDCl_3$) δ 1.53 (s, 9H), 2.67 (s, 3H), 3.11 (s, 3H), 3.21 (s, 3H), 3.56 (s, 3H), 3.77 (s, 3H), 5.12 (s, 2H), 6.52 (s, 1H), 6.84 (s, 1H), 7.13 (d, J = 8.4 Hz, 1H), 7.33 (dd, J = 2.1, 8.4 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.39 (m, 5H), 7.74 (d, J = 8.7 Hz, 2H) IR (KBr) 1692, 1614, 1520, 1480, 1390, 1367, 1231, 1175, 1152, 1078, 876, 799 cm^{-1}
I-819	m.p 172 ℃ ^{1}H NMR ($CDCl_3$) δ 2.77 (s, 3H), 3.05 (s, 3H), 3.16 (s, 3H), 3.22 (s, 3H), 3.36 (s, 3H), 3.78 (s, 3H), 5.16 (s, 2H), 6.46 (s, 1H), 6.85 (s, 1H), 7.14 (d, J = 8.4 Hz, 1H), 7.25 (d, J = 8.7 Hz, 2H), 7.35 (dd, J = 2.1, 8.4 Hz, 1H), 7.39 (d, J = 8.7 Hz, 2H), 7.40 (d, J = 2.1, 1H), 7.47 (d, J = 8.4 Hz, 2H), 7.67 (d, J = 8.7 Hz, 2H) IR (KBr) 1608, 1519, 1480, 1361, 1175, 1154, 1079, 972, 876, 801 cm^{-1}
I-820	mp 180-182 ℃ ^{1}H NMR ($CDCl_3$) δ 2.69 (s, 3H), 3.14 (s, 3H), 3.21 (s, 3H), 3.53 (s, 3H), 3.71 (d, J = 0.9 Hz, 3H), 5.20 (s, 2H), 6.93 (d, J = 8.4 Hz, 1H), 7.34-7.49 (m, 9H), 7.59 (dd, J = 9.0, 1.2 Hz, 2H) IR (KBr) 1518, 1469, 1357, 1179, 1151, 1038, 871, 821 cm^{-1}
I-821	mp 183-185 ℃ ^{1}H NMR ($CDCl_3$) δ 3.41 (s, 3H), 3.66 (d, J = 0.9 Hz, 3H), 4.91 (s, 1H), 5.17 (s, 2H), 5.62 (s, 1H), 5.70 (s, 1H), 6.92-6.96 (m, 2H), 6.97 (dd, J = 8.4, 2.0 Hz, 1H), 7.04 (d, J = 8.4 Hz, 1H), 7.10 (d, J = 2.0 Hz, 1H), 7.36-7.48 (m, 7H) IR (KBr) 3541, 3398, 1588, 1523, 1461, 1410, 1320, 1261, 1217, 1037, 836, 747 cm^{-1}
I-822	mp 108-110 ℃ ^{1}H NMR ($CDCl_3$) δ 2.69 (s, 3H), 3.13 (s, 3H), 3.45 (s, 3H), 3.53 (s, 3H), 3.77 (s, 3H), 4.66 (s, 2H), 4.76 (s, 2H), 5.19 (s, 2H), 6.86 (s, 1H), 7.71 (d, J = 8.4 Hz, 1H), 7.33-7.48 (m, 9H), 7.62 (d, J = 8.4 Hz, 2H) IR (KBr) 1482, 1390, 1307, 1276, 1177, 1083, 1053, 1013, 807 cm^{-1}

Table 163

I-823	mp 192-194 ℃ ^{1}H NMR ($CDCl_3$) δ 1.70 (br s, 1H), 2.69 (s, 3H), 3.13 (s, 3H), 3.53 (s, 3H), 3.77 (s, 3H), 4.78 (s, 2H), 5.19 (s, 2H), 6.87 (s, 1H), 7.15 (d, J = 8.4 Hz, 1H), 7.35 (dd, J = 8.4, 2.3 Hz, 1H), 7.37-7.49 (m, 8H), 7.63 (d, J = 7.8 Hz, 2H) IR (KBr) 3554, 3434, 1522, 1481, 1389, 1364, 1277, 1234, 1174, 1085, 1012, 807 cm^{-1}
I-824	mp 135-137 ℃ ^{1}H NMR ($CDCl_3$) δ 3.19 (s, 3H), 3.60 (s, 3H), 3.71 (s, 3H), 4.96 (s, 1H), 5.18 (s, 2H), 5.78 (s, 1H), 6.73 (s, 1H), 6.88 (dd, J = 8.3, 2.1 Hz, 1H), 7.02 (d, J = 2.1 Hz, 1H), 7.08 (d, J = 8.3 Hz, 1H), 7.34 (d, J = 8.6 Hz, 2H), 7.41-7.47 (m, 5H), 7.63 (d, J = 8.6 Hz, 2H) IR (KBr) 3479, 1473, 1347, 1149, 1010, 869, 803, 784, 747 cm^{-1}
I-825	mp 149-151 ℃ ^{1}H NMR ($CDCl_3$) δ 2.68 (s, 3H), 3.13 (s, 3H), 3.20 (s, 3H), 3.69 (s, 3H), 3.71 (s, 3H), 5.20 (s, 2H), 7.18 (d, J = 8.7 Hz, 1H), 7.21 (s, 1H), 7.35-7.50 (m, 9H), 7.63 (d, J = 8.1 Hz, 2H) IR (KBr) 1519,1469, 1353, 1173, 1149, 1050, 966, 873, 849, 810 cm^{-1}
I-826	mp 82-85 ℃ ^{1}H NMR ($CDCl_3$) δ 1.78 (s, 3H), 1.82 (s, 3H), 2.70 (s, 3H), 3.20 (s, 3H), 3.25 (s, 3H), 3.69 (s, 3H), 3.70 (s, 3H), 4.65 (d, J = 6.9 Hz, 2H), 5.51 (t, J = 6.9 Hz, 1H), 7.11 (d, J = 8.8 Hz, 1H), 7.21 (s, 1H), 7.37 (d, J = 8.9 Hz, 2H), 7.38 (dd, J = 8.8, 2.2 Hz, 1H), 7.42 (d, J = 2.2 Hz, 1H), 7.63 (d, J = 8.9 Hz, 2H) IR (KBr) 1516, 1468, 1363, 1180, 1151, 1045, 967, 846, 788 cm^{-1}
I-827	amorphous ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.83 (s, 3H), 3.58 (s, 3H), 3.70 (s, 3H), 4.64 (d, J = 6.7 Hz, 2H), 4.97 (s, 1H), 5.04 (s, 1H), 5.53 (t, J = 6.7 Hz, 1H), 5.81 (s, 1H), 6.73 (s, 1H), 6.87 (dd, J = 8.1, 2.0 Hz, 1H), 6.88 (d, J = 8.7 Hz, 2H), 6.99 (d, J = 2.0 Hz, 1H), 7.00 (d, J = 8.1 Hz, 1H), 7.47 (d, J = 8.7 Hz, 2H) IR ($CHCl_3$) 3595, 3536, 1613, 1584, 1521, 1474, 1406, 1356, 1266, 1094, 1062, 1014, 973, 835 cm^{-1}

Table 164

I-828	mp 161-162 ℃ ^{1}H NMR ($CDCl_3$) δ 3.58 (s, 3H), 3.71 (s, 3H), 4.85 (s, 1H), 4.93 (s, 1H), 5.18 (s, 2H), 5.78 (s, 1H), 6.73 (s, 1H), 6.87-6.92 (m, 3H), 7.02 (d, J = 1.8 Hz, 1H), 7.07 (d, J = 8.1 Hz, 1H), 7.37-7.51 (m, 7H) IR (KBr) 3510, 3442, 3326, 1523, 1485, 1453, 1395, 1239, 1061, 1003, 972, 836, 753 cm^{-1}
I-829	mp 85-87 ℃ ^{1}H NMR ($CDCl_3$) δ 1.69 (s, 3H), 1.75 (s, 3H), 2.57 (q, J = 6.9 Hz, 2H), 2.70 (s, 3H), 3.20 (s, 3H), 3.24 (s, 3H), 3.69 (s, 3H), 3.69 (s, 3H), 4.09 (t, J = 6.9 Hz, 2H), 5.22 (t, J = 6.9 Hz, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.21 (s, 1H), 7.37-7.44 (m, 9H), 7.63 (d, J = 8.4 Hz, 2H) IR (KBr) 1519, 1468, 1362, 1179, 1150, 1046, 967, 865, 847 cm^{-1}
I-830	mp 160-162 ℃ ^{1}H NMR ($CDCl_3$) δ 2.38 (s, 3H), 2.68 (s, 3H), 3.12 (s, 3H), 3.20 (s, 3H), 3.69 (s, 3H), 3.70 (s, 3H), 5.15 (s, 2H), 7.16-7.25 (m, 4H), 7.34-7.44 (m, 6H), 7.63 (d, J = 8.1 Hz, 2H) . IR(KBr) 1519, 1469, 1365, 1173, 1149, 1049, 965, 873, 849, 808 cm^{-1}
I-831	amorphous ^{1}H NMR ($CDCl_3$) δ 1.69 (s, 3H), 1.76 (s, 3H), 2.55 (q, J = 6.9 Hz, 1H), 3.58 (s, 3H), 3.69 (s, 3H), 4.08 (t, J = 6.9 Hz, 2H), 4.98 (s, 1H), 5.18 (s, 1H), 5.23 (t, J = 6.9 Hz, 1H), 5.80 (s, 1H), 6.72 (s, 1H), 6.86-6.89 (m, 3H), 6.97-7.00 (m, 3H), 7.47 (d, J = 8.4 Hz, 2H) IR (KBr) 3595, 3538, 1521, 1471, 1265, 1173, 1095, 1063, 1015, 835 cm^{-1}
I-832	mp 200-201 ℃ ^{1}H NMR ($CDCl_3$) δ 2.40 (s, 3H), 3.58 (s, 3H), 3.70 (s, 3H), 4.80 (s, 1H), 4.92 (s, 1H), 5.13 (s, 2H), 5.77 (s, 1H), 6.73 (s, 1H), 6.88 (dd, J = 8.1, 2.0 Hz, 1H), 6.89 (d, J = 8.4 Hz, 2H), 7.01 (d, J = 1.8 Hz, 1H), 7.07 (d, J = 8.4 Hz, 1H), 7.24 (d, J = 7.8 Hz, 2H), 7.35 (d, J = 7.8 Hz, 2H), 7.48 (d, J = 8.4 Hz, 2H), IR (KBr) 3419, 1610, 1523, 1485, 1393, 1243, 1065, 1004, 972, 833, 795 cm^{-1}

Table 165

I-833	mp141-142 ℃ ^{1}H NMR ($CDCl_3$) δ 2.03 (s, 3H), 2.11 (s, 3H), 2.54 (s, 3H), 3.15 (s, 3H), 3.21 (s, 3H), 5.20 (s, 2H), 7.12-7.26 (m, 5H), 7.38-7.50 (m, 8H) IR(KBr) 3435, 3033, 2938, 1518, 1470, 1364, 1178, 1149, 1109, 970, 871, 839 cm^{-1}
I-834	mp188-189 ℃ ^{1}H NMR ($CDCl_3$) δ 3.49 (s, 3H), 3.72 (s, 3H), 5.15 (s, 2H), 5.68 (brs, 1H), 5.84 (brs, 1H), 6.42-6.56 (m, 3H), 6.98-7.08 (m, 3H), 7.23-7.31 (m, 3H), 7.23-7.31 (m, 2H), 7.38-7.45 (m, 4H) IR(KBr) 3420, 3328, 1627, 1584, 1523, 1489, 1460, 1412, 1316, 1288, 1249, 1172, 1128, 1115, 1068, 1000, 849, 812, 746 cm^{-1}
I-835	mp180-181 ℃ ^{1}H NMR ($CDCl_3$) δ 3.51 (s, 3H), 3.75 (s, 3H), 5.17 (s, 2H), 5.70 (brs, 1H), 5.77 (brs, 1H), 6.45 (s, 1H), 6.95-7.10 (m, 4H), 7.27-7.46 (m, 8H), 7.96 (brs, 1H)) IR(KBr) 3422, 3358, 1706, 1602, 1489, 1454, 1410, 1289, 1253, 1203, 1180, 1125, 1101, 1071, 1015 cm^{-1}
I-836	mp148-149 ℃ ^{1}H NMR (DMSO-d_6) δ 1.77 (s, 3H), 1.80 (s, 3H), 2.54 (s, 6H), 3.35 (s, 3H), 3.42 (s, 3H), 3.48 (s, 3H), 4.73 (d, J = 4.5 Hz, 2H), 5.50-5.53 (m, 1H), 7.30-7.54 (m, 8H) IR(KBr) 3495, 3293, 1754, 1712, 1516, 1359, 1359, 1243, 1175, 1147, 971, 866, 845 cm^{-1}
I-837	mp136-138 ℃ ^{1}H NMR (DMSO-d_6) δ 2.32 (s, 3H), 2.50 (s, 6H), 3.31 (s, 3H), 3.35 (s, 3H), 3.44 (s, 3H), 5.23 (s, 2H), 7.21-7.47 (m, 12H) IR(KBr) 3495, 3292, 3028, 2934, 1754, 1710, 1516, 1357, 1176, 1147, 972, 868, 842 cm^{-1}

Table 166

I-838	mp195-196 ℃ ^{1}H NMR ($CDCl_3$) δ 1.44 (t, J = 7.2 Hz, 3H), 3.46 (s, 3H), 3.69 (s, 3H), 3.86 (s, 6H), 4.44(q, J = 7.0 Hz, 2H), 5.15 (s, 2H), 5.66 (brs, 1H), 5.72 (brs, 1H), 6.27 (s, 1H), 7.01 (s, 2H), 7.13 (s, 1H), 7.38-7.46 (m, 7H) IR(KBr) 3485, 2937, 1713, 1580, 1464, 1455, 1407, 1324, 1243, 1123, 1102, 1069, 1014, 763 cm^{-1}
I-839	mp150-151 ℃ ^{1}H NMR (DMSO-d_6) δ 1.72 (s, 3H), 1.76 (s, 3H), 1.88 (s, 3H), 1.90 (s, 3H), 4.55 (d, J = 5.8 Hz, 2H), 5.44-5.50 (m, 1H), 6.80-6.97 (m, 8H), 7.81 (brs, 1H), 8.85 (brs, 1H), 9.38 (brs, 1H) IR(KBr) 3495, 3293, 1753, 1711, 1429, 1390, 1360, 1242, 1217, 1178, 1143, 781 cm^{-1}
I-840	mp149-150 ℃ ^{1}H NMR (DMSO-d_6) δ 1.71 (s, 3H), 1.75 (s, 3H), 2.00 (s, 6H), 2.59 (s, 3H), 4.57 (d, J = 6.4 Hz, 2H), 5.42-5.47 (m, 1H), 6.84-7.13 (m, 8H), 9.13 (brs, 1H), 9.50 (brs, 1H) IR(KBr) 3451, 2933, 1612, 1587, 1518, 1472, 1348, 1259, 1211, 1171, 1121, 1087, 969, 872, 835, 813 cm^{-1}
I-841	mp203-204 ℃ ^{1}H NMR (DMSO-d_6) δ 1.87 (s, 3H), 1.89 (s, 3H), 2.31 (s, 3H), 5.09 (s, 2H), 6.80-7.00 (m, 8H), 7.20 (d, J = 7.8 Hz, 2H), 7.39 (d, J = 7.8 Hz, 2H), 7.81 (brs, 1H), 8.97 (brs, 1H), 9.38 (brs, 1H) IR(KBr) 3491, 3398, 2921, 1611, 1516, 1476, 1259, 1183, 1155, 996, 794 cm^{-1}
I-842	mp128-129 ℃ ^{1}H NMR (DMSO-d_6) δ 2.01 (s, 6H), 2.34 (s, 3H), 2.63 (s, 3H), 5.12 (s, 2H), 6.85-7.13 (m, 8H), 7.18 (d, J = 7.6 Hz, 2H), 7.36 (d, J = 7.6 Hz, 2H), 9.15 (brs, 1H), 9.55 (brs, 1H) IR(KBr) 3432, 3305, 1735, 1607, 1523, 1482, 1398, 1360, 1294, 1284, 1179, 1080, 816 cm^{-1}

Table 167

1-843	mp203-204 ℃ ^{1}H NMR ($CDCl_3$) δ 2.66 (s, 3H), 3.13 (s, 3H), 3.59 (s, 3H), 3.76 (s, 3H), 5.19 (s, 2H), 6.85 (s, 1H), 7.13-7.69 (m, 11H), 8.07 (brs, 1H) IR(KBr) 3432, 3305, 1735, 1607, 1523, 1482, 1398, 1360, 1294, 1284, 1179, 1080, 816 cm^{-1}
1-844	mp109-110 ℃ ^{1}H NMR (DMSO-d_6) δ 1.36 (t, J = 7.2 Hz, 3H), 2.82 (s, 3H), 3.24 (s, 3H), 3.47 (s, 3H), 3.66 (s, 3H), 3.79 (s, 6H), 4.38 (q, J = 7.0 Hz, 2H), 5.26 (s, 2H), 6.78 (s, 1H), 7.32-7.52 (m, 10H) IR(KBr) 3432, 2940, 1716, 1579, 1465, 1407, 1366, 1322, 1240, 1179, 1123, 1078, 815, 796 cm^{-1}
1-845	mp 113-115 ℃ ^{1}H NMR ($CDCl_3$) δ 2.25 (s, 3H), 2.27 (s, 3H), 3.20 (s, 3H), 5.20 (s, 2H), 7.03-7.15 (m, 5H), 7.33-7.51 (m, 9H)) IR ($CHCl_3$) 2925, 1618, 1580, 1521, 1455, 1373, 1314, 1299, 1268, 1174, 1149, 1126, 1018, 970, 874 cm^{-1}
1-846	mp 155-157 ℃ ^{1}H NMR ($CDCl_3$) δ 2.26 (s, 6H), 4.69 (s, 1H), 5.19 (s, 2H), 6.87-6.90 (m, 2H), 7.03-7.15 (m, 5H), 7.22-7.50 (m, 7H) IR ($CHCl_3$) 3596, 2952, 2924, 1612, 1582, 1523, 1490, 1455, 1425, 1383, 1259, 1171, 1125, 1012, 956, 877 cm^{-1}
1-847	mp 81-84 ℃ ^{1}H NMR ($CDCl_3$) δ 1.07-1.14 (m, 6H), 2.55-2.66 (m, 4H), 4.73 (s, 1H), 5.16 (s, 2H), 5.70 (s, 1H), 6.82-6.91 (m, 3H), 6.92-6.99 (m, 2H), 7.10-7.12 (d, J = 4.2 Hz, 2H), 7.22-7.25 (m, 2H), 7.38-7.49 (m, 5H) IR ($CHCl_3$) 3596, 3542, 2968, 2932, 2872, 1731, 1611, 1588, 1520, 1489, 1455, 1380, 1327, 1289, 1256, 1171, 1126, 1011, 903, 878, 836 cm^{-1}
1-848	mp 125-127 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.26 (s, 3H), 2.28 (s, 3H), 3.20 (s, 3H), 4.63-4.65 (d, J = 6.9 Hz, 2H), 5.56 (m, 1H), 7.02-7.13 (m, 5H), 7.31-7.43 (m, 4H) IR ($CHCl_3$) 2924, 1619, 1578, 1488, 1373, 1298, 1266, 1174, 1149, 1125, 970, 874 cm^{-1}

Table 168

I-849	mp 141-143 ℃ ^{1}H NMR ($CDCl_3$) δ 1.07-1.14 (m, 6H), 2.53-2.65 (m, 4H), 3.12 (s, 3H), 3.20 (s, 3H), 5.18 (s, 2H), 7.10-7.14 (m, 3H), 7.24-7.27 (m, 2H), 7.33-7.50 (m, 9H) IR ($CHCl_3$) 2969, 2934, 1614, 1517, 1487, 1371, 1331, 1289, 1263, 1173, 1149, 1111, 970, 938, 872 cm^{-1}
I-850	mp 90-91 ℃ ^{1}H NMR ($CDCl_3$) δ 2.13 (s, 3H), 2.29 (s, 3H), 2.35 (s, 3H), 3.16 (s, 3H), 5.21 (s, 2H), 6.87-6.90 (m, 2H), 7.09-7.49 (m, 11H) IR ($CHCl_3$) 3596, 1731, 1613, 1520, 1478, 1362, 1261, 1173, 1119, 1086, 1025, 972, 953, 874 cm^{-1}
I-851	mp 94-96 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76-1.77 (d, J = 0.3 Hz, 3H), 1.81-1.82 (d, J = 0.9 Hz, 3H), 2.26 (s, 3H), 2.27 (s, 3H), 4.62-4.64 (d, J = 6.9 Hz, 2H), 4.71 (s, 1H), 5.56 (m, 1H), 6.87-6.91 (m, 2H), 7.00-7.13 (m, 5H), 7.23-7.27 (m, 2H) IR ($CHCl_3$) 3596, 2923, 1675, 1613, 1579, 1523, 1490, 1386, 1297, 1171, 1124, 990, 956, 877, 836 cm^{-1}
I-852	mp 106-108 ℃ ^{1}H NMR ($CDCl_3$) δ 2.63 (s, 3H), 3.52 (s, 3H), 3.77 (s, 3H), 5.24 (s, 2H), 6.84 (s, 1H), 6.84 (s, 1H), 7.12-7.20 (m, 3H), 7.35-7.50 (m, 7H), 7.56-7.64 (m, 2H) IR (KBr) 2935, 1604, 1523, 1483, 1373, 1232, 1086, 1011, 945, 847, 728, 605, 523, 506 cm^{-1}
I-853	mp 136-138 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.67 (s, 3H), 3.53 (s, 3H), 3.78 (s, 3H), 4.67 (d, J = 6.9 Hz, 2H), 5.47-5.53 (m, 1H), 6.84 (s, 1H), 7.10-7.19 (m, 3H), 7.31 (d, J = 2.1 Hz, 1H), 7.38 (dd, J = 2.1, 8.1 Hz, 1H), 7.57-7.64 (m, 2H) IR (KBr) 2936, 1604, 1523, 1484, 1435, 1373, 1225, 1086, 1011, 943, 848, 783, 606, 508 cm^{-1}

Table 169

I-854	mp 128-130 ℃ ^{1}H NMR ($CDCl_3$) δ 1.74 (s, 3H), 1.81 (s, 3H), 2.62 (s, 3H), 3.52 (s, 3H), 3.79 (s, 3H), 4.63-4.67 (m, 2H), 5.45-5.53 (m, 1H), 6.86 (s, 1H), 7.01 (dd, J = 2.1 Hz, 8.4 Hz, 1H), 7.10 (d, J = 1.8 Hz, 1H), 7.13-7.20 (m, 2H), 7.29 (d, J = 8.4 Hz, 1H), 7.59-7.64 (m, 2H) IR (KBr) 2940, 1600, 1518, 1484, 1418, 1366, 1232, 1080, 984, 893, 838, 812, 621, 524 cm^{-1}
I-855	mp 141-143 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 2.61 (s, 3H), 3.53 (s, 3H), 3.77 (s, 3H), 4.62 (d, J = 6.9 Hz, 2H), 5.47-5.53 (m, 1H), 5.70 (s, 1H), 6.83 (s, 1H), 6.91 (dd, J = 2.1, 8.1 Hz, 1H), 6.96 (d, J = 8.1 Hz, 1H), 7.02 (d, J = 2.1 Hz, 1H), 7.10-7.19 (m, 2H), 7.59-7.64 (m, 2H) IR (KBr) 3531, 2931, 1604, 1520, 1484, 1372, 1233, 1175, 1083, 1011, 814, 800, 781, 727, 526 cm^{-1}
I-856	mp 217-220 ℃ ^{1}H NMR ($CDCl_3$) δ 2.75 (s, 3H), 3.51 (s, 3H), 3.78 (s, 3H), 5.78 (s, 1H), 6.85 (s, 1H), 7.03 (dd, J = 1.8, 8.4 Hz, 1H), 7.11-7.20 (m, 3H), 7.32 (d, J = 8.4 Hz, 1H), 7.58-7.63 (m, 2H) IR (KBr) 3434, 2941, 1611, 1487, 1423, 1363, 1209, 1076, 891, 818, 621, 573, 513 cm^{-1}
I-857	mp 183-185 ℃ ^{1}H NMR ($CDCl_3$) δ 1.92 (s, 3H), 3.20 (s, 3H), 3.53 (s, 3H), 3.78 (s, 3H), 3.93 (s, 3H), 4.31 (s, 4H), 6.79-6.83 (m, 2H), 6.90-6.94 (m, 2H), 7.16-7.41 (m, 12H), 7.66-7.71 (m, 2H), IR (KBr) 3030, 2936, 1604, 1517, 1482, 1362, 1232, 1232, 1180, 1120, 1082, 877, 799, 701, 526 cm^{-1}
I-858	mp 192-194 ℃ ^{1}H NMR ($CDCl_3$) δ 2.57 (s, 3H), 3.21 (s, 3H), 3.56 (s, 3H), 3.77 (s, 3H), 3.87 (s, 3H), 6.77-6.89 (m, 4H), 7.34-7.40 (m, 2H), 7.67-7.72 (m, 2H) IR (KBr) 3451, 3368, 2937, 1622, 1524, 1481, 1359, 1174, 1149, 1086, 962, 869, 802, 525 cm^{-1}

Table 170

I-859	mp 210-212 ℃ ^{1}H NMR ($CDCl_3$) δ 1.92 (s, 3H), 2.23 (s, 3H), 3.46 (s, 3H), 3.74 (s, 3H), 3.89 (s, 3H), 5.24 (s, 1H), 5.80 (s, 1H), 5.94 (s, 1H), 6.46 (s, 1H), 6.90-6.96 (m, 1H), 7.01 (d, J = 1.8 Hz, 1H), 7.08 (dd, J = 1.8, 8.1 Hz, 1H), 7.50-7.55 (m, 2H), 7.76 (s, 1H), 8.52 (d, J = 8.1 Hz, 1H), IR (KBr) 3420, 2938, 1636, 1610, 1526, 1496, 1398, 1225, 1164, 1073, 1026, 831 cm^{-1}
I-860	mp 183-185 ℃ ^{1}H NMR (DMSO-d_6) δ 2.43 (s, 6H), 2.45 (s, 6H), 5.13 (s, 2H), 6.76-6.82 (m, 4H), 6.91 (dd, J = 2.1, 8.4 Hz, 1H), 7.01 (d, J = 8.4 Hz, 1H), 7.09 (d, J = 2.1 Hz, 1H), 7.31-7.43 (m, 5H), 7.48-7.53 (m, 2H), 9.02 (br s, 1H), 9.32 (br s, 1H) IR (KBr) 3600-2800(br), 1609, 1581, 1521, 1493, 1455, 1437, 1384, 1321, 1275, 1215, 1193, 1142, 1007 cm^{-1}
I-861	mp 172-174 ℃ ^{1}H NMR ($CDCl_3$) δ 2.50 (s, 6H), 2.53 (s, 6H), 3.11 (s, 3H), 3.19 (s, 3H), 5.18 (s, 2H), 6.89 (s, 1H), 6.93 (s, 1H), 7.12 (d, J = 8.4 Hz, 1H), 7.30-7.54 (m, 8H), 7.66-7.71 (m, 2H), 7.73 (d, J = 2.1 Hz, 1H) IR (KBr) 3600-2800(br), 1613, 1518, 1491, 1455, 1361, 1348, 1276, 1178, 1159, 1109, 970 cm^{-1}
I-862	mp 173-175 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.51 (s, 6H), 2.53 (s, 6H), 3.19 (s, 3H), 3.22 (s, 3H), 4.63 (d, J = 7.2 Hz, 2H), 5.49-5.53 (m, 1H), 6.89 (s, 1H), 6.93 (s, 1H), 7.05 (d, J = 9.0 Hz, 1H), 7.26-7.35 (m, 2H), 7.51 (dd, J = 1.8, 8.1 Hz, 1H), 7.67-7.70 (m, 3H) IR (KBr) 3600-2800(br), 1519, 1491, 1363, 1331, 1291, 1257, 1175, 1147, 1105, 1013, 980, 966 cm^{-1}
I-863	mp 150-152 ℃ ^{1}H NMR (DMSO-d_6) δ 1.72 (s, 3H), 1.76 (s, 3H), 2.43 (s, 6H), 2.45 (s, 6H), 4.55 (d, J = 6.6 Hz, 2H), 5.47-5.51 (m, 1H), 6.78-6.83 (m, 4H), 6.90-7.06 (m, 3H), 7.38-7.42 (m, 2H), 8.87 (br s, 1H), 9.39 (br s, 1H) IR (KBr) 3600-2800(br), 1610, 1585, 1522, 1495, 1476, 1448, 1385, 1292, 1275, 1199, 1171, 1136, 985, 948 cm^{-1}

Table 171

I-864	mp 175-177 ℃ ^{1}H NMR (DMSO-d_6) δ 2.44 (s, 12H), 5.13 (s, 4H), 6.77 (s, 2H), 6.90-7.09 (m, 8H), 7.33-7.52 (m, 8H), 9.01 (s, 2H) IR (KBr) 3600-2800(br), 1582, 1518, 1491, 1454, 1384, 1328, 1270, 1242, 1191, 1141, 1123, 1046, 1006 cm^{-1}
I-865	mp 175-177 ℃ ^{1}H NMR ($CDCl_3$) δ 2.52 (s, 12H), 3.11 (s, 6H), 5.17 (s, 4H), 6.91 (s, 2H), 7.11 (d, J = 8.4 Hz, 2H), 7.36-7.52 (m, 12H), 7.72 (d, J = 2.1 Hz, 2H) IR (KBr) 3600-2800(br), 1612, 1520, 1496, 1455, 1364, 1348, 1265, 1184, 1164, 1117, 1005, 971 cm^{-1}
I-866	mp 180-182 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 6H), 1.81 (s, 6H), 2.52 (s, 12H), 3.22 (s, 6H), 4.63 (d, J = 6.9 Hz, 2H), 5.49-5.54 (m, 2H), 6.90 (s, 2H), 7.04 (d, J = 8.4 Hz, 2H), 7.50 (dd, J = 2.1, 8.4 Hz, 2H), 7.04 (d, J = 2.1 Hz, 2H) IR (KBr) 3600-2800(br), 1520, 1494, 1365, 1274, 1186, 1161, 1113, 996, 973 cm^{-1}
I-867	mp 165-168 ℃ ^{1}H NMR (DMSO-d_6) δ 1.72 (s, 6H), 1.76 (s, 6H), 2.45 (s, 12H), 4.55 (d, J = 6.0 Hz, 4H), 5.45-5.55 (m, 2H), 6.77 (s, 2H), 6.89-6.98 (m, 4H), 7.03-7.07 (m, 2H), 8.86 (br s, 2H) IR (KBr) 3600-2800(br), 1579, 1519, 1497, 1476, 1456, 1384, 1277, 1238, 1195, 1142, 1126, 1050, 994 cm^{-1}
I-868	mp 76-78 ℃ ^{1}H NMR ($CDCl_3$) δ 3.47 (s, 3H), 3.75 (s, 3H), 3.94 (s, 3H), 5.15 (s, 2H), 5.68 (s, 1H), 5.69 (s, 1H), 5.92 (s, 1H), 6.46 (s, 1H), 6.93-7.15 (m, 5H), 7.22 (d, J = 1.5 Hz, 1H), 7.34-7.49 (m, 5H) IR ($CHCl_3$) 3528, 1586, 1520, 1489, 1461, 1399, 1287, 1260, 1110, 1070, 1010, 907, 819 cm^{-1}
I-869	mp 140-142 ℃ ^{1}H NMR ($CDCl_3$) δ 2.65 (s, 3H), 3.13 (s, 3H), 3.25 (s, 3H), 3.57 (s, 3H), 3.78 (s, 3H), 3.94 (s, 3H), 5.19 (s, 2H), 6.85 (s, 1H), 7.13-7.19 (m, 2H), 7.30-7.50 (m, 9H) IR ($CHCl_3$) 1598, 1516, 1480, 1367, 1266, 1176, 1115, 1081, 1012, 969, 918, 867, 808 cm^{-1}

Table 172

I-870	mp 189-190 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (d, J = 0.9 Hz, 3H), 1.81 (s, 3H), 2.69 (s, 3H), 3.24 (s, 3H), 3.25 (s, 3H), 3.58 (s, 3H), 3.78 (s, 3H), 3.94 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.49 (m, 1H), 6.85 (s, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.17 (d.d, J = 2.1, 8.4 Hz, 1H), 7.30-7.42 (m, 4H) IR ($CHCl_3$) 2932, 1599, 1516, 1480, 1367, 1329, 1266, 1177, 1115, 1082, 1032, 1013, 970, 907, 868, 807 cm^{-1}
I-871	mp 187-190 ℃ ^{1}H NMR ($CDCl_3$) δ 2.38 (s, 3H), 2.64 (s, 3H), 3.13 (s, 3H), 3.25 (s, 3H), 3.58 (s, 3H), 3.78 (s, 3H), 3.94 (s, 3H), 5.14 (s, 2H), 6.84 (s, 1H), 7.13-7.24 (m, 4H), 7.30-7.42 (m, 6H) IR ($CHCl_3$) 2966, 1598, 1517, 1480, 1462, 1368, 1329, 1267, 1177, 1116, 1082, 1032, 970, 907, 867, 808 cm^{-1}
I-872	mp 192-194 ℃ ^{1}H NMR ($CDCl_3$) δ 1.15 (t, J = 6.9 Hz, 3H), 1.76 (s, 3H), 1.82 (s, 3H), 2.59 (s, 3H), 3.69 (q, J = 6.9 Hz, 2H), 3.77 (s, 3H), 4.61 (d, J = 6.9 Hz, 2H), 4.99 (s, 1H), 5.50 (m, 1H), 5.70 (s, 1H), 6.84 (s, 1H), 6.88-6.97 (m, 3H), 7.02 (d, J = 1.8 Hz, 1H), 7.52-7.58 (m, 2H) IR ($CHCl_3$) 3536, 2934, 1609, 1520, 1482, 1410, 1365, 1279, 1243, 1172, 1128, 1080, 1029, 972, 952, 872, 833, 812 cm^{-1}
I-873	^{1}H NMR ($CDCl_3$) δ 3.46 (s, 3H), 3.70 (s, 2H), 3.74 (s, 3H), 3.75 (s, 3H), 5.15 (s, 2H), 5.67 (s, 1H), 5.90 (s, 1H), 6.47 (s, 1H), 6.96 (d.d, J = 8.4 & 1.8 Hz, 1H), 7.03 (d, J = 8.4Hz, 1H), 7.09 (d, J = 1.8Hz, 1H), 7.33 - 7.44 (m, 7H), 7.61 (.d, J = 8.4 Hz, 2H) IR (KBr) 3536,3389, 1732, 1587, 1519, 1487, 1438, 1393, 1249, 1217, 1166, 1110, 1069,1001cm^{-1}
I-874	^{1}H NMR ($CDCl_3$) δ 3.46 (s, 3H), 3.74 (s, 5H), 5.15 (s, 2H), 5.68 (s, 1H), 5.91 (s, 1H), 6.47 (s, 1H), 6.96 (d.d, J =8.4 & 1.8 Hz, 1H), 7.03 (.d, J = 8.4 Hz, 1H), 7.09 (.d, J = 8.4Hz, 1H), 7.32 - 7.49 (m, 7H), 7.62 (d, J = 8.1Hz, 2H) IR (KBr) 3381, 1715, 1698, 1608, 1581, 1523, 1485, 1455, 1396, 1294, 1235, 1112, 1072,1017cm^{-1}
I-875	^{1}H NMR ($CDCl_3$) δ 2.69 (s, 3H), 3.13 (s, 3H), 3.54 (s, 3H), 3.70 (s, 2H), 3.74 (s, 3H), 3.77 (s, 3H), 5.19 (s, 2H), 6.86 (s, 1H), 7.15 (d, J = 8.7 Hz, 1H), 7.30 - 7.40 (m, 9H), 7.59 (.d, J = 8.1 Hz, 2H) IR (KBr) 1734, 1721, 1606, 1481, 1398, 1361, 1244, 1175, 1120, 1078, 1010cm^{-1}

Table 173

I-876	^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.73 (s, 3H), 3.23 (s,3H), 3.54 (s, 3H), 3.70 (s, 2H), 3.74 (s, 3H), 3.77 (s, 3H), 4.64 (d, J = 6.9Hz, 2H), 5.46 - 5.55 (m, 1H), 6.86 (s, 1H), 7.09 (d, J = 8.4Hz, 1H), 7.35 (d.d, J = 8.4 & 2.1Hz, 1H), 7.37 (d, J = 8.1Hz, 2H), 7.39 (d, J = 2.1 Hz, 1H), 7.59 (d, J = 8.1Hz, 2H) ^{1}H NMR ($CDCl_3$) δ IR (KBr) 3447, 1735, 1608, 1522, 1482, 1365, 1177, 1117, 1078, 1013cm^{-1}
I-877	^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 3.46 (s, 3H), 3.74 (s, 5H), 3H), 4.62 (d, J = 6.9 Hz, 2H), 5.46 - 5.58 (m, 1H), 5.69 (s, 1H), 5.89 (s, 1H), 6.47 (s, 1H), 6.96 (s, 2H), 7.06 (s, 1H), 7.38 (d, J = 8.4Hz, 2H), 7.62 (d, J = 8.4Hz, 2H)
I-878	^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 3.46 (s, 3H), 3.70 (s, 2H), 3.74 (s, 6H), 4.62 (d, J = 6.9 Hz, 2H), 5.46 - 5.58 (m, 1H), 5.68 (s, 1H), 5.88 (s, 1H), 6.47 (s, 1H), 6.96 (s, 2H), 7.06 (s, 1H), 7.37 (d, J = 8.4 Hz, 2H), 7.61 (d, J = 8.4 Hz, 2H) IR (KBr) 3527,3386, 1734, 1609, 1586, 1520, 1487, 1439, 1396, 1219, 1167, 1111, 1068,1010 cm^{-1}
I-879	mp 136-139 ℃ ^{1}H NMR ($CDCl_3$) δ 1.7 (br s, 1H), 1.76 (s, 3H), 1.81 (s, 3H), 2.73 (s, 3H), 3.23 (s, 3H), 3.53 (s, 3H), 3.78 (s, 3H), 4.64 (d, J = 6.7 Hz, 2H), 4.78 (s, 2H), 5.49 (t, J = 6.8 Hz, 1H), 6.87 (s, 1H), 7.09 (d, J = 8.6 Hz, 1H), 7.35 (dd, J = 8.6, 2.1 Hz, 1H), 7.40 (d, J = 2.1 Hz, 1H), 7.47 (d, J = 8.1 Hz, 2H), 7.64 (d, J = 8.1 Hz, 2H) IR (KBr) 3553, 3434, 1481, 1389, 1363, 1235, 1175, 1084, 1011, 972, 806 cm^{-1}
I-880	mp 180-181 ℃ ^{1}H NMR ($CDCl_3$) δ 1.70 (br s, 1H), 1.76 (s, 3H), 1.82 (s, 3H), 3.46 (s, 3H), 3.75 (s, 3H), 4.62 (d, J = 6.9 Hz, 2H), 4.77 (s, 2H), 5.53 (t, J = 6.9 Hz, 1H), 5.69 (s, 1H), 5.89 (s, 1H), 6.47 (s, 1H), 6.94-6.96 (m, 2H), 7.05-7.07 (m, 1H), 7.46 (d, J = 8.1 Hz, 2H), 7.65 (d, J = 8.4 Hz, 2H) IR (KBr) 3509, 3367, 1522, 1487, 1461, 1396, 1289, 1249, 1213, 1116, 1071, 1009, 992, 942, 797, 782 cm^{-1}

Table 174

I-881	mp 122-123 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.34 (t, J = 6.5 Hz, 1H), 3.22 (s, 3H), 3.45 (s, 3H), 3.73 (s, 3H), 4.5 (m, 2H), 4.64 (d, J = 6.6 Hz, 2H), 5.56 (t, J = 6.6 Hz, 1H), 6.84 (s, 1H), 6.99-7.10 (m, 3H), 7.39 (d, J = 8.7 Hz, 2H), 7.71 (d, J = 8.7 Hz, 2H) IR (KBr) 3579, 1518, 1471, 1360, 1261, 1230, 1148, 1019, 966, 881, 843 cm^{-1}
I-882	mp 156-158 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.49 (t, J = 6.6 Hz, 1H), 3.44 (s, 3H), 3.72 (s, 3H), 4.49 (br s, 2H), 4.63 (d, J = 6.7 Hz, 2H), 5.04 (s, 1H), 5.55 (t, J = 6.7 Hz, 1H), 6.85 (s, 1H), 6.92 (d, J = 8.9 Hz, 2H), 6.98-7.10 (m, 3H), 7.53 (d, J = 8.9 Hz, 2H) IR (KBr) 3433, 3234, 1609, 1520, 1472, 1266, 1227, 994, 836 cm^{-1}
I-883	mp 168-170 ℃ ^{1}H NMR ($CDCl_3$) δ 2.50 (t, J = 6.5 Hz, 1H), 3.44 (s, 3H), 3.73 (s, 3H), 4.49 (br s, 2H), 4.78 (d, J = 6.1 Hz, 2H), 5.06 (s, 1H), 6.24 (t, J = 6.1 Hz, 1H), 6.85 (s, 1H), 6.93 (d, J = 8.6 Hz, 2H), 6.97-7.13 (m, 3H), 7.53 (d, J = 8.6 Hz, 2H) IR (KBr) 3544, 3412, 3267, 1613, 1521, 1475, 1263, 1229, 1011, 884, 816 cm^{-1}
I-884	mp153-154 ℃ ^{1}H NMR ($CDCl_3$) δ 3.49 (s, 3H), 3.77 (s, 3H), 5.17 (s, 2H), 5.76 (brs, 2H), 6.45 (s, 1H), 6.91-7.07 (m, 3H), 7.26-7.45 (m, 5H), 7.93 (d, J = 8.2 Hz, 2H), 8.00 (brs, 1H), 8.27 (d, J = 8.4 Hz, 2H) IR(KBr) 3448, 2962, 2938, 1738, 1627, 1604, 1589, 1519, 1486, 1319, 1250, 1153, 1115, 1071, 1011 cm^{-1}
I-885	mp81-82 ℃ ^{1}H NMR ($CDCl_3$) δ 1.51 (s, 3H), 1.54 (s, 3H), 1.74 (s, 3H), 1.77 (s, 3H), 2.70 (s, 3H), 3.24 (s, 3H), 3.60 (s, 3H), 3.78 (s, 3H), 4.38 (d, J = 7.5 Hz, 2H), 4.65 (d, J = 6.6 Hz, 2H), 6.86 (s, 1H), 7.06-7.11 (m, 3H), 7.35-7.41 (m, 2H), 7.52-7.57 (m, 1H) IR(KBr) 3433, 2938, 1699, 1618, 1521, 1481, 1367, 1209, 1178, 1115, 1081, 972, 950, 813, 793 cm^{-1}

Table 175

I-886	mp208-209 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.71 (s, 3H), 3.23 (s, 3H), 3.60 (s, 3H), 3.76 (s, 3H), 4.64 (d, J = 7.2 Hz, 2H), 5.49 (t, J = 8.7 Hz, 1H), 6.85 (s, 1H), 7.09 (d, J = 8.7 Hz, 1H), 7.26-7.40 (m, 3H), 7.52-7.58 (m, 1H), 7.69-7.73 (m, 1H), 8.02 (brs, 1H) IR(KBr) 3357, 2939, 1736, 1606, 1523, 1483, 1398, 1370, 1294, 1243, 1179, 1111, 1079, 965, 827, 814, 795 cm^{-1}
I-887	mp89-90 ℃ ^{1}H NMR ($CDCl_3$) δ 2.34 (s, 3H), 2.38 (s, 3H), 2.64 (s, 3H), 3.12 (s, 3H), 3.53 (s, 3H), 3.77 (s, 3H), 4.92 (s, 2H), 5.14 (s, 2H), 6.83 (s, 1H), 6.89 (d, J = 8.7 Hz, 2H), 7.11-7.46 (m, 12H) IR(KBr) 3434, 2939, 1699, 1617, 1520, 1481, 1367, 1211, 1178, 1114, 1081, 952, 813, 794 cm^{-1}
I-888	mp181-182 ℃ ^{1}H NMR ($CDCl_3$) δ 2.38 (s, 3H), 2.66 (s, 3H), 3.12 (s, 3H), 3.59 (s, 3H), 3.76 (s, 3H), 5.14 (s, 2H), 6.85 (s, 1H), 7.14-7.41 (m, 8H), 7.52-7.58 (m, 1H), 7.69-7.73 (m, 1H), 8.02 (brs, 1H) IR(KBr) 3348, 3030, 2940, 1733, 1607, 1523, 1482, 1397, 1366, 1281, 1242, 1212, 1179, 1128, 1112, 1080, 971, 944, 815, 799 cm^{-1}
I-889	mp155-157 ℃ ^{1}H NMR ($CDCl_3$) δ 1.46 (t, J = 7.0 Hz, 3H), 1.76 (s, 3H), 1.82 (s, 3H), 2.73 (s, 3H), 3.23 (s, 3H), 3.56 (s, 3H), 3.74 (s, 3H), 4.46 (q, J = 7.4 Hz, 2H), 4.65 (d, J = 7.2 Hz, 2H), 5.48-5.54 (m, 1H), 6.69 (s, 1H), 7.09 (d, J = 8.4 Hz, 2H), 7.28-7.47 (m, 4H) IR(KBr) 3434, 2938, 1716, 1579, 1477, 1464, 1409, 1366, 1241, 1178, 1124, 1078, 955, 815, 796 cm^{-1}
I-890	mp82-83 ℃ ^{1}H NMR ($CDCl_3$) δ 2.67 (s, 3H), 3.13 (s, 3H), 3.58 (s, 3H), 3.80 (s, 3H), 5.19 (s, 2H), 6.84 (s, 1H), 7.13-7.49 (m, 8H), 7.89-7.96 (m, 2H), 8.27 (brs, 1H), 8.27-8.31 (m, 1H) IR(KBr) 3447, 3033, 2940, 1743, 1521, 1482, 1367, 1312, 1272, 1249, 1178, 1119, 1080, 957, 817, 799 cm^{-1}

Table 176

I-891	mp86-87 ℃ ^{1}H NMR ($CDCl_3$) δ 2.68 (s, 3H), 3.10 (s, 3H), 3.15 (s, 3H), 3.62 (s, 3H), 3.81 (s, 3H), 5.22 (s, 2H), 6.85 (s, 1H), 7.16-7.50 (m, 9H), 7.88-7.94 (m, 2H) IR(KBr) 3413, 2938, 1519, 1483, 1366, 1313, 1162, 1119, 1090, 1079, 957, 812 cm^{-1}
I-892	mp97-98 ℃ ^{1}H NMR ($CDCl_3$) δ 1.53 (s, 3H), 1.55 (s, 3H), 1.76 (s, 3H), 1.78 (s, 3H), 3.63 (s, 3H), 3.75 (s, 3H), 4.26 (d, J = 7.4 Hz, 2H), 4.62 (d, J = 6.8 Hz, 2H), 5.65 (brs, 1H), 5.72 (brs, 1H), 6.84 (s, 1H), 7.04-7.13 (m, 3H), 7.35-7.43 (m, 2H), 7.51-7.58 (m, 1H) IR(KBr) 3453, 3379, 2973, 2931, 1719, 1629, 1529, 1490, 1406, 1313, 1288, 1247, 1193, 1101, 1072, 1015, 993, 816, 786 cm^{-1}
I-893	mp89-90 ℃ ^{1}H NMR (DMSO-d_6) δ 1.75 (s, 3H), 1.78 (s, 3H), 3.31 (s, 3H), 3.62 (s, 3H), 4.56 (d, J = 6.9 Hz, 2H), 5.52 (t, J = 6.0 Hz, 1H), 6.33 (s, 1H), 6.34-6.47 (m, 2H), 6.74 (brs, 2H), 6.74-6.75 (m, 1H), 6.87-6.91 (m, 1H), 7.11-7.12 (m, 1H), 7.32-7.34 (m, 1H), 8.52 (brs, 1H), 8.75 (brs, 1H) IR(KBr) 3424, 2933, 2614, 1719, 1625, 1585, 1523, 1488, 1408, 1287, 1247, 1125, 1070, 819, 788 cm^{-1}
I-894	mp167-168 ℃ ^{1}H NMR ($CDCl_3$) δ 2.31 (s, 3H), 2.38 (s, 3H), 3.52 (s, 3H), 3.76 (s, 3H), 4.91 (s, 2H), 5.13 (s, 2H), 5.65 (brs, 1H), 5.77 (brs, 1H), 6.85 (s, 1H), 6.84-6.93 (m, 2H), 7.10-7.44 (m, 12H) IR(KBr) 3425, 2933, 2614, 1719, 1625, 1585, 1522, 1488, 1408, 1287, 1247, 1125 cm^{-1}
I-895	mp93-94 ℃ ^{1}H NMR (DMSO-d_6) δ 2.11 (s, 3H), 3.34 (s, 3H), 3.62 (s, 3H), 5.10 (s, 2H), 6.32 (s, 2H), 6.41-6.49 (m, 2H), 6.65 (d, J = 9.3 Hz, 1H), 6.78 (s, 1H), 6.95 (d, J = 8.7 Hz, 1H), 7.09-7.14 (m, 1H), 7.22 (d, J = 8.4 Hz, 2H), 7.41 (d, J = 8.1 Hz, 2H), 8.49 (brs, 1H), 8.87 (brs, 1H) IR(KBr) 3424, 2932, 1717, 1626, 1585, 1523, 1488, 1409, 1248, 1125, 1106, 1070, 811, 793 cm^{-1}

Table 177

I-896	mp149-150 ℃ ^{1}H NMR (DMSO-d_6) δ 1.72 (s, 3H), 1.77 (s, 3H), 3.32 (s, 3H), 3.55 (s, 3H), 3.76 (s, 6H), 4.55 (d, J = 6.3 Hz, 2H), 5.50 (t, J = 6.6 Hz, 1H), 6.15 (s, 1H), 6.68 (d, J = 2.1 Hz, 1H), 6.91 (d, J = 8.7 Hz, 1H), 7.30 (s, 2H), 8.41 (brs, 1H), 8.74 (brs, 1H) IR(KBr) 3423, 2936, 1694, 1578, 1459, 1410, 1319, 1229, 1126, 1067 cm^{-1}
I-897	mp107-108 ℃ ^{1}H NMR ($CDCl_3$) δ 2.70 (s, 3H), 3.12 (s, 3H), 3.55 (s, 3H), 3.72 (s, 3H), 3.78 (s, 6H), 5.18 (s, 2H), 6.65 (s, 1H), 6.70 (d, J = 4.2 Hz, 1H), 7.14 (d, J = 8.4 Hz, 1H), 7.26-7.48 (m, 9H) IR(KBr) 3434, 2941, 1517, 1488, 1366, 1353, 1261, 1177, 1102, 1074, 844, 818, 796 cm^{-1}
I-898	powder ^{1}H NMR ($CDCl_3$) δ 1.63 (s, 3H), 1.70 (s, 3H), 3.48 (s, 3H), 3.73-3.76 (m, 7H), 3.87 (s, 3H), 4.98 (s, 1H), 5.24-5.32 (m, 2H), 5.90 (s, 1H), 6.47 (s, 1H), 6.89-7.02 (m, 5H), 7.51-7.57 (m, 2H) IR (KBr) 3447, 2930, 1612, 1523, 1488, 1455, 1398, 1230, 1120, 1080, 1037, 818, 592 cm^{-1}
I-899	mp 171-173 ℃ ^{1}H NMR ($CDCl_3$) δ 1.73 (s, 3H), 1.76 (s, 3H), 3.48 (s, 3H), 3.73-3.76 (m, 5H), 4.23 (s, 1H), 4.92 (s, 1H), 5.37-5.43 (m, 1H), 5.84 (s, 1H), 6.46 (s, 1H), 6.70 (d, J = 8.1 Hz, 1H), 6.86-7.01 (m, 5H), 7.51-7.56 (m, 2H) IR (KBr) 3392, 2934, 1612, 1526, 1489, 1398, 1222, 1116, 1075, 829, 590 cm^{-1}
I-900	mp 78-79 ℃ ^{1}H NMR ($CDCl_3$) δ 2.14 (s, 3H), 2.29 (s, 3H), 2.36 (s, 3H), 3.16 (s, 3H), 3.20 (s, 3H), 5.22 (s, 2H), 7.10 (s, 1H), 7.16 (d, J = 8.7 Hz, 1H), 7.22-7.49 (m, 11H) IR ($CHCl_3$) 2939, 1612, 1516, 1476, 1415, 1370, 1291, 1269, 1174, 1150, 1119, 1087, 1018, 971, 954, 873 cm^{-1}

Table 178

I-901	mp 114-116 ℃ ^{1}H NMR ($CDCl_3$) δ 1.08-1.14 (m, 6H), 1.77 (s, 3H), 1.81-1.82 (d, J = 0.6 Hz, 3H), 2.53-2.65 (m, 4H), 3.21 (s, 3H), 3.23 (s, 3H), 4.62-4.65 (d, J = 6.6 Hz, 2H), 5.52 (m, 1H), 7.04-7.13 (m, 2H), 7.23-7.26 (m, 2H), 7.32-7.42 (m, 5H) IR ($CHCl_3$) 2970, 2934, 2874, 1674, 1614, 1572, 1517, 1487, 1415, 1370, 1331, 1288, 1262, 1172, 1149, 1109, 971, 937, 872, 849 cm^{-1}
I-902	mp 97-99 ℃ ^{1}H NMR ($CDCl_3$) δ 1.07-1.14 (m, 6H), 1.77 (s, 3H), 1.83 (s, 3H), 2.55-2.66 (m, 4H), 4.61-4.64 (d, J = 6.6 Hz, 2H), 5.06 (s, 1H), 5.54 (m, 1H), 5.77 (s, 1H), 7.24-7.64 (m, 4H), 6.97 (d, J = 2.1 Hz, 1H), 7.10-7.12 (d, J = 5.7 Hz, 2H), 7.23-7.26 (m, 2H) IR ($CHCl_3$) 3596, 3537, 2969, 2933, 27873, 1675, 1612, 1586, 1520, 1489, 1385, 1327, 1290, 1257, 1171, 1125, 996, 903, 877, 836 cm^{-1}
I-903	mp 69-71 ℃ ^{1}H NMR ($CDCl_3$) δ 1.78 (s, 3H), 1.82 (s, 3H), 2.15 (s, 3H), 2.30 (s, 3H), 2.43 (s, 3H), 2.43 (s, 3H), 3.21 (s, 3H), 3.27 (s, 3H), 4.64-4.67 (d, J = 6.9 Hz, 2H), 5.50 (s, 2H), 7.10-7.13 (d, J = 9.9 Hz, 2H), 7.23-7.29 (m, 2H), 7.34-7.42 (m, 5H) IR ($CHCl_3$) 2939, 1612, 1516, 1476, 1415, 1370, 1331, 1290, 1268, 1174, 1150, 1119, 1086, 971, 954, 873 cm^{-1}
I-904	mp 125-127 ℃ ^{1}H NMR ($CDCl_3$) δ 2.27 (s, 6H), 3.91 (s, 3H), 4.88 (br, 1H), 5.20 (s, 2H), 6.83-6.96 (m, 5H), 7.12-7.13 (d, J = 4.5 Hz, 2H), 7.22-7.50 (m, 7H) IR ($CHCl_3$) 3596, 2957, 2936, 1611, 1586, 1522, 1490, 1464, 1454, 1326, 1257, 1172, 1138, 1033, 835 cm^{-1}
I-905	mp 145-146 ℃ ^{1}H NMR ($CDCl_3$) δ 2.26 (s, 3H), 2.28 (s, 3H), 3.20 (s, 3H), 3.91 (s, 3H), 5.21 (s, 2H), 6.83 (dd, J = 8.1, 2.1 Hz, 1H), 6.91-6.96 (m, 2H), 7.11 (s, 1H), 7.15 (s, 1H), 7.32-7.50 (m, 9H) IR ($CHCl_3$) 2938, 1604, 1584, 1519, 1488, 1464, 1454, 1373, 1330, 1260, 1175, 1149, 1033, 1018, 970, 873, 847 cm^{-1}

Table 179

I-906	mp 132-134 ℃ ^{1}H NMR ($CDCl_3$) δ 2.27 (s, 3H), 2.87, (s, 3H), 3.91 (s, 3H), 5.16 (s, 2H), 5.21 (s, 2H), 5.70 (s, 1H), 6.82-6.86 (m, 2H), 6.92-7.00(m, 4H), 7.13 (s, 2H), 7.32-7.50 (m, 10H) IR ($CHCl_3$) 3542, 2936, 2871, 1585, 1519, 1491, 1454, 1382, 1322, 1273, 1175, 1137, 1014, 897, 877, 857 cm^{-1}
I-907	mp 181-182 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.13 (s, 3H), 2.30 (s, 3H), 2.35 (s, 3H), 4.61-4.64 (d, J = 6.9 Hz, 2H), 5.37 (s, 1H), 5.51 (m, 1H), 5.78 (s, 1H), 6.81 (dd, J = 8.1, 2.1 Hz, 1H), 6.86-6.97 (m, 3H), 7.08 (s, 1H), 7.19-7.22 (m, 2H), 7.26 (s, 1H) IR ($CHCl_3$) 3595, 3536, 2936, 1613, 1587, 1519, 1479, 1453, 1359, 1330, 1279, 1246, 1173, 1127, 1085, 1024, 974, 950, 881, 867 cm^{-1}
I-908	mp 167-168 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77-1.78 (d, J = 0.9 Hz, 3H), 1.84 (s, 3H), 2.08 (s, 3H), 2.15 (s, 3H), 4.63-4.65 (d, J = 6.9 Hz, 2H), 4.82 (s, 1H), 5.05 (s, 1H), 5.55 (m, 1H), 5.80 (m, 1H), 6.74 (s, 1H), 6.78 (dd, J = 8.4, 2.1 Hz, 1H), 6.87-6.95 (m, 3H), 7.00 (d, J = 8.4 Hz, 1H), 7.23-7.26 (m, 2H) IR ($CHCl_3$) 3594, 3534, 2923, 2869, 1675, 1613, 1584, 1520, 1488, 1455, 1399, 1289, 1247, 1166, 1127, 1091, 994, 948, 835 cm^{-1}
I-909	mp 170-172 ℃ ^{1}H NMR (DMSO-d_6) δ 1.72 (s, 3H), 1.76 (s, 3H), 3.31 (s, 3H), 3.63 (s, 3H), 4.54 (d, J = 6.5 Hz, 2H), 5.17 (s, 2H), 5.49 (t, J = 6.5 Hz, 1H), 6.36 (s, 1H), 6.63 (d, J = 8.4 Hz, 2H), 6.63 (dd, J = 8.4, 2.1 Hz, 1H), 6.72 (d, J = 2.1 Hz, 1H), 6.88 (d, J = 8.4 Hz, 1H), 7.31 (d, J = 8.4 Hz, 2H), 8.40 (s, 1H), 8.70 (s, 1H) IR (KBr) 3416, 3329, 1614, 1523, 1489, 1408, 1242, 1219, 1115, 1070, 997, 817, 787 cm^{-1}

Table 180

I-910	mp 207-209 ℃ ^{1}H NMR (CDCl$_3$) δ 1.54 (s, 9H), 2.69 (s, 3H), 3.12 (s, 3H), 3.52 (s, 3H), 3.77 (s, 3H), 5.18 (s, 2H), 6.56 (s, 1H), 6.85 (s, 1H), 7.14 (d, J = 8.7 Hz, 1H), 7.32-7.48 (m, 9H), 7.57 (d, J = 8.7 Hz, 2H) IR (KBr) 3373, 1734, 1525, 1369, 1227, 1177, 1158, 1080, 816, 793 cm^{-1}
I-911	mp 214-216 ℃ ^{1}H NMR (DMSO-d$_6$) δ 2.84 (s, 3H), 3.33 (s, 3H), 3.46 (s, 3H), 3.75 (s, 3H), 5.26 (s, 2H), 5.30 (s, 2H), 6.66 (d, J = 8.7 Hz, 2H), 6.93 (s, 1H), 7.24-7.45 (m, 8H), 7.52 (m, 2H) IR (KBr) 3468, 3386, 1604, 1523, 1482, 1392, 1361, 1175, 1085, 815 cm^{-1}
I-912	mp 215-218 ℃ ^{1}H NMR (CDCl$_3$) δ 2.67 (s, 3H), 3.13 (s, 3H), 3.53 (s, 3H), 3.78 (s, 3H), 5.19 (s, 2H), 6.86 (s, 1H), 7.15 (d, J = 8.4 Hz, 1H), 7.32-7.48 (m, 7H), 7.69 (s, 4H), 8.02 (br s, 1H) IR (KBr) 3307, 1733, 1482, 1393, 1361, 1284, 1177, 1084, 1012, 967, 945, 816 cm^{-1}
I-913	mp 203-205 ℃ ^{1}H NMR (CDCl$_3$) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.71 (s, 3H), 3.24 (s, 3H), 3.54 (s, 3H), 3.79 (s, 3H), 4.64 (d, J = 6.8 Hz, 2H), 5.50 (t, J = 6.8 Hz, 1H), 6.86 (s, 1H), 7.09 (d, J = 8.4 Hz, 1H), 7.35 (dd, J = 8.4, 2.0 Hz, 1H), 7.39 (d, J = 2.0 Hz, 1H), 7.69 (s, 4H), 8.01 (br s, 1H) IR (KBr) 3311, 1735, 1482, 1393, 1362, 1177, 1083, 976, 945, 818 cm^{-1}
I-914	mp 105-107 ℃ ^{1}H NMR (CDCl$_3$) δ 1.76 (s, 3H), 1.80, (s, 3H), 2.27 (s, 3H), 2.29 (s, 3H), 3.20 (s, 3H), 3.89 (s, 3H), 4.63-4.65 (d, J = 6.6 Hz, 2H), 5.57 (m, 1H), 6.87-6.96 (m, 3H), 7.12 (s, 1H), 7.17 (s, 1H), 7.33-7.43 (m, 4H) IR (CHCl$_3$) 2937, 2866, 1604, 1583, 1519, 1488, 1464, 1373, 1331, 1259, 1175, 1149, 1035, 970, 873 cm^{-1}

Table 181

I-915	mp 164-165 ℃ ^{1}H NMR ($CDCl_3$) δ 1.75-1.76 (d, J = 0.6 Hz, 3H), 1.79-1.80 (d, J = 0.9 Hz, 3H), 2.27 (s, 3H), 2.28 (s, 3H), 3.89 (s, 3H), 4.62-4.65 (d, J = 6.6 Hz, 2H), 4.78 (br, 1H), 5.57 (m, 1H), 6.86-6.96 (m, 4H), 7.12 (s, 1H), 7.15 (s, 1H), 7.22-7.27 (m, 3H) IR ($CHCl_3$) 3596, 2936, 2865, 1676, 1611, 1584, 1522, 1490, 1464, 1385, 1327, 1257, 1172, 1138, 1100, 1035, 996, 952, 896., 835 cm^{-1}
I-916	mp172-173 ℃ ^{1}H NMR ($CDCl_3$) δ 1.72 (s, 3H), 1.77 (s, 6H), 1.81 (s, 3H), 2.70 (s, 3H), 3.11 (s, 3H), 3.24 (s, 3H), 3.57 (s, 3H), 3.80 (s, 3H), 4.06-4.27 (m, 2H), 4.64 (d, J = 7.2 Hz, 2H), 5.37-5.50 (m, 2H), 6.85 (s, 1H), 7.10 (d, J = 8.6 Hz, 1H), 7.32-7.39 (m, 2H), 7.52 (d, J = 8.4 Hz, 1H), 7.84 (d, J = 9.6 Hz, 1H), 7.94 (s, 1H) IR(KBr) 3434, 1519, 1482, 1366, 1346, 1308, 1178, 1157, 1120, 1090, 1078, 957, 805 cm^{-1}
I-917	mp78-80 ℃ ^{1}H NMR ($CDCl_3$) δ 3.47 (s, 3H), 3.69 (s, 6H), 3.80 (s, 6H), 5.14 (s, 2H), 5.66 (brs, 1H), 5.76 (brs, 1H), 6.30 (s, 1H), 6.69 (d, J = 8.2 Hz, 2H), 7.02 (s, 2H), 7.14 (s, 1H), 7.34-7.46 (m, 6H) IR(KBr) 3443, 2935, 1614, 1587, 1517, 1470, 1250, 1110, 744 cm^{-1}
I-918	mp83-84 ℃ ^{1}H NMR (DMSO-d_6) δ 3.34 (s, 3H), 3.72 (s, 3H), 5.13 (s, 2H), 5.72 (brs, 2H), 6.41 (s, 1H), 6.62-6.93 (m, 4H), 7.32-7.61 (m, 7H), 8.54 (brs, 1H), 8.88 (brs, 1H) IR(KBr) 3398, 2936, 1731, 1633, 1586, 1521, 1489, 1455, 1432, 1402, 1291, 1216, 1112, 1071 cm^{-1}
I-919	mp74-75 ℃ ^{1}H NMR ($CDCl_3$) δ 2.02 (s, 6H), 3.11 (s, 3H), 3.21 (s, 3H), 5.02 (brs, 1H), 5.18 (s, 2H), 6.96 (s, 1H), 7.04-7.18 (m, 3H), 7.37-7.59 (m, 9H) IR(KBr) 3503, 3032, 2937, 1513, 1474, 1365, 1289, 1197, 1175, 1149, 1114, 970, 867, 811 cm^{-1}

Table 182

I-920	mp78-79 ℃ ^{1}H NMR ($CDCl_3$) δ 1.73 (s, 3H), 1.78 (s, 6H), 1.83 (s, 3H), 3.11 (s, 3H), 3.48 (s, 3H), 3.77 (s, 3H), 4.07-4.29 (m, 2H), 4.64 (d, J = 6.8 Hz, 2H), 5.41-5.55 (m, 2H), 5.73 (s, 1H), 5.82 (s, 1H), 6.47 (s, 1H), 6.94-7.05 (m, 3H), 7.53 (d, J = 8.0 Hz, 1H), 7.86 (d, J = 8.6 Hz, 1H), 8.00 (s, 1H)IR(KBr) 3449, 2971, 2935, 1519, 1489, 1424, 1338, 1310, 1226, 1152, 1117, 1070, 1059, 773 cm^{-1}
I-921	mp176-177 ℃ ^{1}H NMR ($CDCl_3$) δ 2.10 (s, 3H), 2.18 (s, 3H), 2.47 (s, 3H), 3.12 (s, 3H), 3.23 (s, 3H), 5.20 (s, 2H), 7.09-7.21 (m, 3H), 7.39-7.51 (m, 8H), 7.60 (d, J = 8.4 Hz, 2H). IR(KBr) 3433, 3033, 2937, 1516, 1470, 1360, 1291, 1267, 1176, 1150, 1119, 976, 857 cm^{-1}
I-922	mp 170-172 ℃ ^{1}H NMR (DMSO-d_6) δ 3.36 (s, 3H), 3.66 (s, 3H), 4.22 (br d, J = 2.5 Hz, 2H), 4.50 (t, J = 4.5 Hz, 1H), 4.57 (d, J = 5.7 Hz, 2H), 4.60 (d, J = 5.7 Hz, 2H), 4.97 (t, J = 5.7 Hz, 2H), 5.17 (s, 2H), 5.23 (t, J = 5.7 Hz, 1H), 6.93 (s, 1H), 7.04 (d, J = 8.4 Hz, 1H), 7.14 (dd, J = 8.4, 2.3 Hz, 1H), 7.28-7.37 (m, 2H), 7.40-7.45 (m, 4H), 7.49-7.53 (m, 2H), 7.61 (d, J = 8.1 Hz, 2H) IR (KBr) 3322, 1462, 1385, 1228, 1037, 1006, 750, 700 cm^{-1}
I-923	mp 130-132 ℃ ^{1}H NMR ($CDCl_3$) δ 1.55 (s, 9H), 1.62 (s, 3H), 2.30 (s, 12H), 3.00 (s, 6H), 6.73 (br s, 1H), 6.78-6.82 (m, 2H), 7.07-7.14 (m, 4H), 7.24-7.27(m, 2H), 8.07-8.13 (m, 2H) IR (KBr) 3600-2800(br), 1732, 1624, 1610, 1583, 1530, 1493, 1366, 1347, 1320, 1236, 1154 cm^{-1}
I-924	mp 104-106 ℃ ^{1}H NMR ($CDCl_3$) δ 2.27 (s, 3H), 2.30 (s, 3H), 3.00 (s, 6H), 3.74 (br s, 2H), 6.77-6.85 (m, 3H), 6.96 (dd, J = 1.8, 8.1 Hz, 1H), 7.03 (dd, J = 2.1, 12.0 Hz, 1H), 7.09 (s, 1H), 7.13 (s, 1H), 7.24-7.29 (m, 2H) IR (KBr) 3600-2800(br), 1631, 1608, 1580, 1530, 1487, 1436, 1363, 1233, 1195 cm^{-1}

Table 183

I-925	mp 100-102 ℃ ^{1}H NMR ($CDCl_3$) δ 1.75 (d, J = 0.6 Hz, 3H), 1.78 (d, J = 0.6 Hz, 3H), 2.29 (s, 3H), 2.30 (s, 3H), 3.00 (s, 6H), 3.77 (d, J = 6.6 Hz, 2H), 3.87 (br s, 2H), 5.37-5.40 (m, 1H), 6.71-6.83 (m, 3H), 7.00-7.03 (m, 2H), 7.11 (s, 1H), 7.13 (s, 1H), 7.25-7.29 (m, 2H) IR (KBr) 3600-2800(br), 1623, 1610, 1529, 1490, 1441, 1348, 1328, 1253, 1229, 1120, 1065 cm^{-1}
I-926	mp 178-180 ℃ ^{1}H NMR ($CDCl_3$) δ 2.27 (s, 3H), 2.32 (s, 3H), 3.01 (s, 6H), 6.78-6.83 (m, 2H), 7.10 (s, 1H), 7.16 (s, 1H), 7.18-7.28 (m, 4H), 8.12 (br s, 1H), 8.27-8.33 (m, 1H) IR (KBr) 3600-2800(br), 1709, 1613, 1532, 1490, 1356, 1283, 1229, 1188, 1167 cm^{-1}
I-927	mp 154-156 ℃ ^{1}H NMR ($CDCl_3$) δ 1.94 (d, J = 1.2 Hz, 3H), 2.26 (d, J = 1.2 Hz, 3H), 2.27 (s, 3H), 2.31 (s, 3H), 3.00 (s, 6H), 5.79-5.80 (m, 1H), 6.78-6.82 (m, 3H), 7.09-7.16 (m, 4H), 7.16-7.24 (m, 2H), 8.38-8.44 (m, 1H) IR (KBr) 3600-2800(br), 1681, 1665, 1643, 1610, 1528, 1506, 1487, 1442, 1359, 1317, 1237, 1198, 1159 cm^{-1}
I-928	mp 183-185 ℃ ^{1}H NMR ($CDCl_3$) δ 1.44 (t, J = 7.5 Hz, 3H), 2.27 (s, 3H), 2.31 (s, 3H), 3.16-3.23 (m, 2H), 6.53 (d, J = 2.4 Hz, 1H), 6.78-6.82 (m, 2H), 7.09 (s, 1H), 7.14-7.18 (m, 3H), 7.24-7.27 (m, 3H), 7.59-7.65 (m, 1H) IR (KBr) 3600-2800(br), 1607, 1527, 1491, 1451, 1436, 1359, 1336, 1271, 1222, 1153, 1110 cm^{-1}
I-929	mp 184-186 ℃ ^{1}H NMR ($CDCl_3$) δ 2.26 (s, 3H), 2.32 (s, 3H), 3.01 (s, 6H), 6.78-6.83 (m, 2H), 7.10 (s, 1H), 7.18 (s, 1H), 7.23-7.27 (m, 1H), 7.65 (dd, J = 1.8, 8.1 Hz, 1H), 7.70 (d, J = 2.1 Hz, 1H), 8.19-8.24 (m, 1H) IR (KBr) 3600-2800(br), 1721, 1612, 1536, 1490, 1325, 1282, 1242, 1197, 1169, 1123, 1054 cm^{-1}

Table 184

1-930	mp 212-215℃ ^{1}H NMR (DMSO-d_6) δ 2.83 (s, 3H), 3.43 (s, 3H), 3.45 (s, 3H), 3.52 (s, 3H), 3.79 (s, 3H), 4.87 (s, 2H), 7.08 (s, 1H), 7.21 (d, J = 8.4 Hz, 1H), 7.27~7.32 (m, 2H), 7.48 (d, J = 8.7 Hz, 2H), 7.74 (d, J = 8.7 Hz, 2H) IR (Nujol) 1731, 1604, 1519, 1480, 1237, 1174, 1081, 1013, 876, 839, 822, 804 cm^{-1}
1-931	mp 166-168℃ ^{1}H NMR ($CDCl_3$) δ 3.45 (s, 3H), 3.75 (s, 3H), 4.67 (d, J = 9.0 Hz, 2H), 6.45 (s, 1H), 6.78 (t, J = 9.0 Hz, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.92 (d, J = 8.4 Hz, 1H), 6.98 (dd, J = 8.4, 2.1 Hz, 1H), 7.09 (d, J = 2.1 Hz, 1H), 7.53 (d, J = 8.7 Hz, 2H) IR (Nujol) 3399, 1611, 1588, 1523, 1488, 1460, 1224, 1113, 1070, 1012, 939, 825, 813, 795 cm^{-1}
1-932	foam ^{1}H NMR ($CDCl_3$) δ 3.45 (s, 3H), 3.75 (s, 3H), 4.64~4.74 (m, 3H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.93 (d, J = 8.4, Hz, 1H), 6.97 (dd, J = 8.4, 2.1 Hz, 1H), 7.08 (d, J = 2.1 Hz, 1H), 7.53 (d, J = 8.7 Hz, 2H) IR (Nujol) 3570, 3461, 3357, 3180, 1753, 1616, 1596, 1524, 1495, 1408, 1313, 1287, 1264, 1240, 1200, 1114, 1073, 1011, 906, 825 cm^{-1}
1-933	mp 120-123 ℃ ^{1}H NMR ($CDCl_3$) δ 1.69 (s, 3H), 1.74 (s, 6H), 1.80 (s, 3H), 3.49 (s, 3H), 6.68-3.75 (m, 5H), 4.58 (d, J = 6.6 Hz, 2H), 5.31-5.41 (m, 1H), 5.50-5.56 (m, 1H), 5.81 (s, 1H), 6.46 (s, 1H), 6.68-6.74 (m, 2H), 6.85-6.93 (m, 3H), 7.50-7.56 (m, 2H) IR (KBr) 3460, 2969, 2929, 1609, 1523, 1490, 1398, 1247, 1117, 1078, 1013, 824, 778, 708, 589 cm^{-1}
1-934	mp 171-173 ℃ ^{1}H NMR ($CDCl_3$) δ 1.75 (s, 3H), 1.80 (s, 3H), 3.47 (s, 3H), 3.73 (s, 3H), 3.81 (s, 2H), 4.58 (d, J = 6.9 Hz, 2H), 5.50-5.57 (m, 1H), 5.82 (s, 1H), 6.44 (s, 1H), 6.77-6.94 (m, 5H), 7.50-7.55 (m, 2H) IR (KBr) 3382, 3320, 2929, 1613, 1523, 1490, 1405, 1262, 1221, 1120, 1067, 1011, 844, 818, 598 cm^{-1}

Table 185

I-935	mp 220-221 ℃ ^{1}H NMR (DMSO-d_6) δ 1.74 (s, 3H), 1.77 (s, 3H), 2.08 (s, 3H), 3.30 (s, 3H), 3.64 (s, 3H), 4.64 (d, J = 7.2 Hz, 2H), 5.48-5.54 (m, 1H), 6.40 (s, 1H), 6.80-6.87 (m, 2H), 6.93-7.03 (m, 2H), 7.42-7.46 (m, 2H), 7.85 (s, 1H), 8.58 (s, 1H), 8.96 (s, 1H), 9.56 (s, 1H) IR (KBr) 3476, 3400, 3322, 2935, 1658, 1610, 1542, 1520, 1487, 1270, 1258, 1225, 1115, 1010, 825, 596 cm^{-1}
I-936	mp 149-150 ℃ ^{1}H NMR ($CDCl_3$) δ 1.48 (s, 3H), 1.67 (s, 3H), 1.76 (s, 3H), 1.80 (s, 3H), 3.63 (s, 3H), 3.74 (s, 3H), 4.27 (d, J = 7.5 Hz, 2H), 4.63 (d, J = 6.6 Hz, 2H), 5.01 (s, 1H), 5.20-5.28 (m, 1H), 5.52-5.60 (m, 1H), 6.66 (s, 1H), 6.91 (d, J = 8.7 Hz, 2H), 7.01 (t, J = 8.7 Hz, 1H), 7.10-7.22 (m, 2H), 7.48 (d, J = 8.7 Hz, 2H) IR (KBr) 3335, 2936, 1671, 1614, 1596, 1522, 1441, 1403, 1369, 1265, 1233, 1111, 1077, 1008, 945, 832 cm^{-1}
I-937	mp 122-123 ℃ ^{1}H NMR ($CDCl_3$) δ 3.44 (s, 3H), 3.76 (s, 3H), 4.77 (d, J = 6.3 Hz, 2H), 5.05 (s, 1H), 6.04 (s, 1H), 6.24 (t, J = 6.3 Hz, 1H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H) 7.01 (t, J = 8.7 Hz, 1H), 7.19-7.30 (m, 2H), 7.53 (d, J = 8.7 Hz, 2H) IR (KBr) 3582, 3502, 3237, 2950, 1614, 1524, 1490, 1453, 1403, 1301, 13267, 1231, 1112, 1073, 1019, 881, 827 cm^{-1}
I-938	mp143-144 ℃ ^{1}H NMR ($CDCl_3$) δ 1.79 (s, 3H), 1.84 (s, 3H), 2.10 (s, 3H), 2.17 (s, 3H), 2.47 (s, 3H), 3.23 (s, 3H), 3.24 (s, 3H), 4.66 (d, J = 6.6 Hz, 2H), 5.20-5.55 (m, 1H), 7.09-7.16 (m, 4H), 7.40 (d, J = 8.7 Hz, 2H), 7.60 (d, J = 8.1 Hz, 2H) IR(KBr) 3433, 2935, 1513, 1472, 1366, 1188, 1178, 1152, 1117, 974, 857 cm^{-1}
I-939	mp80-81 ℃ ^{1}H NMR ($CDCl_3$) δ 3.47 (s, 3H), 3.48 (s, 3H), 3.68 (s, 3H), 3.81 (s, 6H), 4.79 (s, 2H), 5.13 (s, 2H), 5.14 (s, 2H), 5.65 (s, 1H), 5.75 (s, 1H), 6.28 (s, 1H), 6.69 (s, 2H), 7.01 (s, 2H), 7.14 (s, 1H), 7.40-7.45 (m, 5H) IR(KBr) 3433, 2937, 1720, 1582, 1508, 1455, 1407, 1285, 1239, 1125, 1069, 1051, 1011 cm^{-1}

Table 186

1-940	mp71-72 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.73 (s, 3H), 3.21 (s, 3H), 3.55 (s, 3H), 3.72 (s, 3H), 3.78 (s, 6H), 4.63 (d, J = 6.8 Hz, 2H), 5.46-5.52 (m, 1H), 6.65 (s, 1H), 6.70 (d, J = 3.8 Hz, 2H), 7.07 (d, J = 8.4 Hz, 1H), 7.34-7.46 (m, 3H) IR(KBr) 3433, 2938, 1674, 1609, 1587, 1518, 14732, 1365, 1252, 1178, 1109, 1077, 971, 945, 815, 796 cm^{-1}
1-941	mp98-99 ℃ ^{1}H NMR ($CDCl_3$) δ 1.74 (s, 3H), 1.78 (s, 3H), 3.50 (s, 3H), 3.71 (s, 3H), 3.72 (d, J = 8.1 Hz, 2H), 5.35 (t, J = 7.2 Hz, 1H), 5.64 (s, 1H), 5.77 (s, 1H), 6.43 (s, 1H), 7.02-7.15 (m, 3H), 7.32-7.41 (m, 2H), 7.49-7.56 (m, 1H) IR(KBr) 3408, 2934, 1627, 1529, 1491, 1444, 1405, 1246, 1175, 1102, 1069, 822, 783 cm^{-1}
1-942	^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.68 (s, 3H), 2.73 (s, 3H), 3.25 (s, 3H), 3.60 (s, 3H), 3.81 (s, 3H), 4.65 (d, J = 6.3 Hz, 2H), 5.44 - 5.53 (m, 1H), 6.87 (s, 1H), 7.10 (.d, J = 8.7 Hz, 1H), 7.30 - 7.47 (m, 3H), 7.84 (d.d, J = 7.8 & 2.1 Hz, 1H), 8.22 (d, J = 2.1Hz, 1H) IR (KBr) 1530, 1480, 1362, 1272, 1237, 1179, 1077cm^{-1}
1-943	^{1}H NMR ($CDCl_3$) δ 2.69 (s, 3H), 3.12 (s, 3H), 3.56 (s, 3H), 3.77 (s, 3H), 3.84 (s, 2H), 5.18 (s, 2H), 6.82 (s, 1H), 6.84 (d, J = 8.1 Hz, 1H), 7.14 (.d, J = 8.4 Hz, 1H), 7.21 - 7.50 (m, 9H) IR (KBr) 3466,3377, 1634, 1583, 1525, 1488, 1461, 1400, 1288, 1245, 1196, 1105,1069cm^{-1}
1-944	^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 3.49 (s, 3H), 3.75 (s, 3H), 4.61 (d, J = 6.6 Hz, 2H), 5.48 - 5.57 (m, 1H), 5.59 - 5.75 (m, 1H), 5.88 (s, 1H), 6.43 (s, 1H), 6.83 - 7.07 (m, 4H), 7.21 - 7.30 (m, 1H), 7.35 (d.d, J = 12.3 & 1.8Hz, 2H) IR (KBr) 3465,3377, 1634, 1525, 1488, 1460, 1400, 1287, 1245, 1195, 1105, 1068cm^{-1}
1-945	^{1}H NMR ($CDCl_3$) δ 2.02 (s, 6H), 2.15 (s, 3H), 3.20 (s, 3H), 5.20 (s, 3H), 6.81 - 6.86(m, 1H),6.93 (d.d, J = 10.7 & 2.1Hz, 1H), 6.97 (s, 1H), 7.04 - 7.12 (m, 1H), 7.31 - 7.52 (m, 9H) IR (KBr) 1513, 1468, 1362, 1295, 1264, 1227, 1193, 1171, 1151, 1003,965cm^{-1}

Table 187

I-946	^{1}H NMR ($CDCl_3$) δ 2.02 (s, 6H), 2.15 (s, 3H), 3.20 (s, 3H), 5.14 (d, J = 3.9 Hz, 1H), 6.81 - 6.86 (m, 1H), 6.91 (d.d, J = 10.1 & 2.1 Hz, 1H), 6.97 (s, 1H), 7.04 - 7.12 (m, 1H), 7.30 - 7.42 (m, 4H) IR (KBr) 3414, 1624, 1595, 1518, 1473, 1360, 1294, 1170, 1144, 1120, 1104, 1016cm^{-1}
I-947	^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.02 (s, 6H), 2.16 (s,3H), 3.20 (s, 3H), 4.64 (d, J = 6.6Hz, 2H), 5.53-5.61 (m, 1H), 6.82 - 7.09 (m, 4H), 7.33 (d, J = 9.0Hz, 2H), 7.39 (d, J = 9.0 Hz, 2H) IR (KBr) 1514, 1468, 1376, 1294, 1262, 1175, 1152,992,968cm^{-1}
I-948	^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.02 (s, 6H), 2.17 (s, 3H), 4.64 (d, J = 6.6Hz, 2H), 4.81 (s, 1H), 5.52 - 5.60 (m, 1H), 6.82-7.08 (m, 6H), 7.22 (.d, J = 8.7Hz, 2H) IR (KBr) 3568,3417, 1613, 1517, 1471, 1287, 1261, 1230, 1192, 1132, 1102, 1001cm^{-1}
I-949	^{1}H NMR ($CDCl_3$) δ 3.02 (s, 6H), 3.46 (s, 3H), 3.75 (s, 3H), 5.18 (s, 2H), 6.03 (s, 1H), 6.47 (s, 1H), 6.82 (d, J = 8.7 Hz, 2H), 7.03 - 7.51 (m, 8H), 7.55 (.d, J = 8.7 Hz, 2H) IR (KBr) 3502, 1604, 1527, 1488, 1359, 1267, 1233, 1198, 1110, 1070cm^{-1}
I-950	^{1}H NMR ($CDCl_3$) δ 2.60 (s, 3H), 3.03 (s, 6H), 3.54 (s, 3H), 3.76 (s, 3H), 5.21 (s, 2H), 6.80 (d, J = 8.7 Hz, 2H), 6.86 (s, 1H),7.03 - 7.49 (m, 8H), 7.54 (.d, J = 8.7 Hz, 2H) IR (KBr) 1602, 1530, 1483, 1444, 1395, 1366, 1233, 1179, 1078, 1015cm^{-1}
I-951	^{1}H NMR ($CDCl_3$) δ 2.76 (s, 3H), 3.02 (s, 6H), 3.54 (s, 3H), 3.76 (s, 3H), 5.28 (s, 1H), 6.81 (d, J = 9.0Hz, 2H), 6.86 (s, 1H), 7.04 - 7.23 (m, 3H), 7.54 (d, J = 9.0Hz, 2H) IR (KBr) 3375, 1607, 1530, 1483, 1395, 1346, 1292, 1228, 1163, 1077, 1009cm^{-1}
I-952	^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.80 (s, 3H), 2.71 (s, 3H), 3.02 (s, 6H), 3.55 (s, 3H), 3.76 (s, 3H), 4.63 (d, J = 6.9 Hz, 2H), 5.49 - 5.57 (m, 1H), 6.82 (.d, J = 8.7 Hz, 2H), 6.86 (s, 1H), 7.01 - 7.23 (m, 3H), 7.54 (d, J = 8.7 Hz, 2H) IR (KBr) 1602, 1531, 1484, 1389, 1369, 1258, 1235, 1197, 1176, 1084cm^{-1}

Table 188

I-953	^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.80 (s, 3H), 3.02 (s, 6H), 3.47 (s, 3H), 3.75 (s, 3H), 4.63 (d, J = 6.9 Hz, 2H), 5.51 - 5.60 (m, 1H), 6.03 (s, 1H), 6.47 (s, 1H), 6.82 (.d, J = 8.7 Hz, 2H), 6.99 - 7.08 (m, 1H), 7.16 - 7.29 (m, 2H), 7.55 (d, J = 8.7 Hz, 2H) IR (KBr) 3498, 1604, 1528, 1488, 1360, 1266, 1234, 1198, 1110, 1067cm^{-1}
I-954	^{1}H NMR ($CDCl_3$) δ 3.02 (s, 6H), 3.47 (s, 3H), 3.75 (s, 3H), 5.14 (s, 1H), 6.03 (s, 1H), 6.47 (s, 1H), 6.82 (d, J = 9.0Hz, 2H), 7.02 - 7.09 (m, 1H), 7.15 - 7.29 (m, 2H), 7.55 (d, J = 9.0Hz, 2H) IR (KBr) 3492,3383, 1607, 1529, 1488, 1397, 1223, 1103, 1065, 1006cm^{-1}
I-955	^{1}H NMR ($CDCl_3$) δ 2.01 (s, 6H), 2.17 (s, 3H), 4.75 (s, 1H), 5.19 (s, 2H), 6.83 - 7.15(m, 7H), 7.30 - 7.53 (m, 6H) IR (KBr) 3542, 1607, 1579, 1513, 1469, 1263, 1126, 1107, 1015cm^{-1}
I-956	^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 2.66 (s, 3H), 3.50 (s, 3H), 3.77 (s, 3H), 4.62 (d, J = 6.4Hz, 2H), 5.48 - 5.56 (m, 1H), 5.71 (s, 1H), 5.81 (s, 1H), 5.47 (s, 1H), 6.90 - 7.00 (m, 2H), 7.04 (d, J = 1.8 Hz, 1H), 7.42 (.d, J = 7.8 Hz, 2H), 7.82 (d.d, J = 7.8 & 1.8Hz, 1H), 8.26(.d, J = 1.5 Hz, 1H) IR (KBr) 3520,3419, 1585, 1529, 1506, 1344, 1313, 1290, 1251, 1226, 1118, 1079cm^{-1}
I-957	mp 123-126 ℃ ^{1}H NMR ($CDCl_3$) δ 1.75 (s, 3H), 1.78 (d, J = 0.9 Hz, 3H), 3.47 (s, 3H), 3.75 (s, 3H), 3.87 (s, 3H), 3.88 (s, 3H), 4.63 (d, J = 6.6 Hz, 2H), 5.57 (m, 1H), 5.92 (s, 1H), 6.47 (s, 1H), 6.95-7.40 (m, 5H), 7.56-7.62 (m, 2H) IR ($CHCl_3$) 3510, 2934, 1608, 1519, 1489, 1461, 1394, 1285, 1243, 1175, 1115, 1075, 1034, 1008, 926, 823 cm^{-1}
I-958	mp 163-164 ℃ ^{1}H NMR ($CDCl_3$) δ 1.75 (s, 3H), 1.78 (s, 3H), 3.61 (s, 3H), 3.65 (s, 3H), 3.75 (s, 3H), 3.88 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 4.99 (s, 1H), 5.58 (m, 1H), 6.68 (s, 1H), 6.88-6.98 (m, 5H), 7.46-7.52 (m, 2H) IR ($CHCl_3$) 3592, 2934, 1610, 1517, 1461, 1387, 1237, 1171, 1136, 1111, 1084, 1036, 1012, 830 cm^{-1}

Table 189

I-959	mp 142-146 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 3.47 (s, 3H), 3.75 (s, 3H), 3.94 (s, 3H), 4.61 (d, J = 6.6 Hz, 2H), 5.53 (m, 1H), 5.69 (s, 1H), 5.70 (s, 1H), 5.91 (s, 1H), 6.46 (s, 1H), 6.94-7.26 (m, 6H) IR ($CHCl_3$) 3526, 2930, 1585, 1520, 1489, 1460, 1399, 1287, 1260, 1110, 1070, 1010, 819 cm^{-1}
I-960	mp 141-145 ℃ ^{1}H NMR ($CDCl_3$) δ 2.39 (s, 3H), 3.47 (s, 3H), 3.94 (s, 3H), 5.10 (s, 2H), 5.68 (s, 1H), 5.69 (s, 1H), 5.92 (s, 1H), 6.46 (s, 1H), 6.93-7.38 (m, 6H) IR ($CHCl_3$) 3528, 1585, 1519, 1489, 1460, 1399, 1260, 1110, 1070, 1009, 863 cm^{-1}
I-961	mp 152-154 ℃ ^{1}H NMR ($CDCl_3$) δ 2.26 (s, 3H), 4.79 (br, 1H), 5.19 (s, 2H), 6.87-6.90 (m, 2H), 7.03-7.15 (m, 4H), 7.22-7.26 (m, 2H), 7.34-7.50 (m, 6H) IR ($CHCl_3$) 3596, 2925, 2869, 1612, 1581, 1523, 1490, 1455, 1383, 1313, 1298, 1259, 1171, 1125, 1100, 1012, 956, 877, 836 cm^{-1}
I-962	mp 150-151 ℃ ^{1}H NMR ($CDCl_3$) δ 2.28 (s, 3H), 3.90 (s, 3H), 4.77-4.79 (d, J = 6.0 Hz, 2H), 6.26 (d, J = 6.0 Hz, 1H), 6.88-6.91 (m, 5H), 7.13-7.14 (d, J = 2.7 Hz, 2H), 7.24-7.27 (m, 2H) IR ($CHCl_3$) 3596, 2958, 1732, 1612, 1587, 1522, 1490, 1464, 1325, 1257, 1172, 1139, 1100, 1032, 886, 835 cm^{-1}
I-963	mp 93-94 ℃ ^{1}H NMR ($CDCl_3$) δ 2.27 (s, 3H), 4.76-4.79 (d, J = 6.0 Hz, 2H), 5.12 (br, 1H), 6.24 (t, J = 6.0 Hz, 1H), 6.88-7.15 (m, 7H), 7.22-7.26 (m, 2H) IR ($CHCl_3$) 3596, 2925, 2867, 1613, 1583, 1523, 1490, 1458, 1424, 1388, 1258, 1171, 1126, 1100, 1022, 956, 886, 836 cm^{-1}

Table 190

1-964	foam ^1H NMR ($CDCl_3$) δ 3.47 (s, 3H), 3.74 (s, 3H), 5.06 (s, 1H), 5.15 (s, 2H), 5.70 (s, 1H), 5.94 (s, 1H), 6.46 (s, 1H), 6.81-7.50 (m, 12H) IR ($CHCl_3$) 3534, 1609, 1587, 1518, 1504, 1482, 1463, 1455, 1407, 1322, 1290, 1249, 1200, 1112, 1072, 1011 cm^{-1}
1-965	foam ^1H NMR ($CDCl_3$) δ 3.61 (s, 3H), 3.75 (s, 3H), 5.16 (s, 2H), 5.72 (s, 2H), 6.46 (s, 1H), 6.83 (s, 1H), 6.94 (dd, J = 2.0, 8.4 Hz, 1H), 7.00-7.12 (m, 4H), 7.29-7.50 (m, 7H) IR ($CHCl_3$) 3531, 1587, 1516, 1498, 1482, 1462, 1455, 1410, 1362, 1308, 1288, 1248, 1202, 1121, 1092, 1070, 1006 cm^{-1}
1-966	mp 174-175 ℃ ^1H NMR ($CDCl_3$) δ 2.28 (s, 3H), 3.38 (s, 3H), 3.71 (s, 3H), 5.16 (s, 2H), 5.68 (s, 1H), 5.88 (s, 1H), 6.30 (s, 1H), 6.98 (dd, J = 1.8, 8.4 Hz, 1H), 7.04 (d, J = 8.4 Hz, 1H), 7.11 (d, J = 1.8 Hz, 1H), 7.22-7.49 (m, 9H) IR (KBr) 3516, 3398, 1587, 1516, 1500, 1484, 1453, 1412, 1306, 1285, 1247, 1231, 1202, 1126, 1101, 1072, 1019, 769, 737 cm^{-1}
1-967	mp 103-104 ℃ ^1H NMR ($CDCl_3$) δ 2.26 (s, 6H), 4.61-4.78 (m, 3H), 4.84 (s, 1H), 6.84-6.92 (m, 2H), 6.97-7.16 (m, 5H), 7.21-7.27 (m, 2H) IR (KBr) 3409, 1742, 1523, 1489, 1315, 1295, 1259, 1231, 1206, 1193, 1124, 1001, 834, 815 cm^{-1}
1-968	mp 90-91 ℃ ^1H NMR ($CDCl_3$) δ 1.77 (s, 6H), 1.82 (d, J = 0.9 Hz, 6H), 2.27 (s, 6H), 4.56 (d, J = 6.6 Hz, 2H), 5.13 (d, J = 6.6 Hz, 2H), 5.49-5.60 (m, 2H), 6.94-7.00 (m, 2H), 7.01-7.14 (m, 5H), 7.25-7.31 (m, 2H) IR (KBr) 1608, 1522, 1488, 1378, 1299, 1288, 1273, 1259, 1242, 1196, 1176, 1014, 831, 811, 776 cm^{-1}

Table 191

I-969	mp 200-203 ℃ ^{1}H NMR ($CDCl_3$) δ 2.00 (s, 3H), 2.25 (s, 3H), 3.46 (s, 3H), 3.73 (s, 3H), 3.83 (s, 3H), 5.25 (s, 1H), 6.01-6.03 (m, 1H), 6.06 (s, 1H), 6.45 (s, 1H), 6.86-6.90 (m, 2H), 7.04-7.14 (m, 3H), 7.47-7.52 (m, 2H) IR (KBr) 3433, 2937, 1721, 1651, 1523, 1489, 1398, 1264, 1225, 1136, 1071, 1035, 927, 823, 530 cm^{-1}
I-970	mp 157-160 ℃ ^{1}H NMR ($CDCl_3$) δ 1.74 (s, 3H), 1.80 (s, 3H), 2.86 (s, 3H), 3.49 (s, 3H), 3.75 (s, 3H), 4.57 (d, J = 6.6 Hz, 2H), 5.08 (s, 1H), 5.50-5.57 (m, 1H), 5.82 (s, 1H), 6.46 (s, 1H), 6.66 (d, J = 2.1 Hz, 1H), 6.73 (dd, J = 2.1, 8.1 Hz, 1H), 6.86-6.94 (m, 3H), 7.50-7.56 (m, 2H) IR (KBr) 3392, 2934, 1611, 1523, 1490, 1397, 1242, 1216, 1112, 1074, 1002, 592 cm^{-1}
I-971	mp 153-155 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.10 (s, 3H), 3.20 (s, 3H), 3.21 (s, 3H), 3.36 (s, 3H), 3.71 (s, 3H), 4.63 (d, J = 6.9 Hz, 2H), 5.52 (t, J = 6.9 Hz, 1H), 6.73 (s, 1H), 7.06 (d, J = 8.4 Hz, 1H), 7.14 (dd, J = 8.4, 2.1 Hz, 1H), 7.23 (d, J = 2.1 Hz, 1H), 7.36 (d, J = 8.9 Hz, 2H), 7.69 (d, J = 8.9 Hz, 2H) IR (KBr) 1515, 1474, 1365, 1229, 1175, 1151, 1096, 973, 870, 810 cm^{-1}
I-972	amorphous ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.43 (s, 3H), 3.44 (s, 3H), 3.71 (s, 3H), 4.49 (d, J = 9.9 Hz, 2H), 4.62 (d, J = 6.6 Hz, 2H), 4.72 (d, J = 7.2 Hz, 2H), 5.53 (t, J = 6.6 Hz, 1H), 6.86 (s, 1H), 6.96 (d, J = 8.7 Hz, 1H), 7.21-7.30 (m, 4H), 7.54 (d, J = 8.1 Hz, 2H) IR (KBr) 3599, 1463, 1386, 1081, 1007 cm^{-1}

Table 192

I-973	mp 83-86 ℃ ^{1}H NMR (DMSO-d_6) δ 1.74 (s, 3H), 1.77 (s, 3H), 3.36 (s, 3H), 3.65 (s, 3H), 4.23 (d, J = 23.1 Hz, 2H), 4.48 (t, J = 4.4 Hz, 1H), 4.52 (d, J = 5.4 Hz, 2H), 4.52-4.60 (m, 4H), 4.89 (t, J = 5.6 Hz, 1H), 5.22 (t, J = 5.9 Hz, 1H), 5.48 (t, J = 6.6 Hz, 1H), 6.92 (s, 1H), 6.96 (d, J = 8.6 Hz, 1H), 7.12 (dd, J = 8.6, 1.5 Hz, 1H), 7.26 (d, J = 1.5 Hz, 1H), 7.42 (d, J = 8.0 Hz, 2H), 7.61 (d, J = 8.0 Hz, 2H) IR (KBr) 3399, 1464, 1386, 1230, 1005 cm^{-1}
I-974	mp 177-179 ℃ ^{1}H NMR ($CDCl_3$) δ 1.31 (d, J = 6.9 Hz, 6H), 2.70 (s, 3H), 2.98 (sept, J = 6.9 Hz, 1H), 3.12 (s, 3H), 3.54 (s, 3H), 3.76 (s, 3H), 5.19 (s, 2H), 6.87 (s, 1H), 7.15 (d, J = 8.4 Hz, 1H), 7.30-7.49 (m, 9H), 7.54 (d, J = 7.8 Hz, 2H) IR (KBr) 1512, 1480, 1369, 1176, 1084, 1014, 813, 798 cm^{-1}
I-975	mp 180-182 ℃ ^{1}H NMR ($CDCl_3$) δ 1.31 (d, J = 6.6 Hz, 6H), 1.76 (s, 3H), 1.81 (s, 3H), 2.74 (s, 3H), 2.98 (sept, J = 6.6 Hz, 1H), 3.22 (s, 3H), 3.54 (s, 3H), 3.77 (s, 3H), 4.63 (d, J = 6.7 Hz, 2H), 5.49 (t, J = 6.7 Hz, 1H), 6.87 (s, 1H), 7.08 (d, J = 8.4 Hz, 1H), 7.31 (d, J = 8.1 Hz, 2H), 7.35 (dd, J = 8.4, 2.1 Hz, 1H), 7.40 (d, J = 2.1 Hz, 1H), 7.54 (d, J = 8.1 Hz, 2H) IR(KBr) 1520, 1481, 1366, 1177, 1083, 1012, 975, 944, 815, 797 cm^{-1}
I-976	mp 125-126 ℃ ^{1}H NMR ($CDCl_3$) δ 1.31 (d, J = 6.9 Hz, 6H), 1.76 (s, 3H), 1.82 (s, 3H), 2.97 (sept, J = 6.9 Hz, 1H), 3.46 (s, 3H), 3.74 (s, 3H), 4.61 (d, J = 7.1 Hz, 2H), 5.53 (t, J = 7.1 Hz, 1H), 5.68 (s, 1H), 5.91 (s, 1H), 6.48 (s, 1H), 6.95-6.96 (m, 2H), 7.06-7.07 (m, 1H), 7.31 (d, J = 8.0 Hz, 2H), 7.57 (d, J = 8.0 Hz, 2H) IR (KBr) cm^{-1}

Table 193

I-977	foam ^{1}H NMR (CDCl$_3$) δ 2.68 (s, 3H), 3.13 (s, 3H), 3.20 (s, 3H), 3.57 (s, 3H), 3.79 (s, 3H), 5.19 (s, 2H), 6.86 (s, 1H), 7.15 (d, J = 8.7 Hz, 1H), 7.31-7.62 (m, 11H) IR (CHCl$_3$) 1517, 1475, 1371, 1227, 1219, 1176, 1117, 1081, 968, 925, 856, 821 cm^{-1}
I-978	foam ^{1}H NMR (CDCl$_3$) δ 2.65 (s, 3H), 2.94 (s, 3H), 3.14 (s, 3H), 3.59 (s, 3H), 3.76 (s, 3H), 5.19 (s, 2H), 6.86 (s, 1H), 7.16 (d, J = 8.7 Hz, 1H), 7.33-7.57 (m, 11H) IR (CHCl$_3$) 1517, 1477, 1398, 1370, 1268, 1233, 1216, 1177, 1159, 1079, 972, 894, 856, 818 cm^{-1}
I-979	foam ^{1}H NMR (CDCl$_3$) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.69 (s, 3H), 2.94 (s, 3H), 3.25 (s, 3H), 3.60 (s, 3H), 3.76 (s, 3H), 4.64 (d, J = 6.9 Hz, 2H), 5.50 (m, 1H), 6.86 (s, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.34-7.57 (m, 11H) IR (CHCl$_3$) 1517, 1476, 1398, 1369, 1234, 1178, 1159, 1105, 1079, 972, 895, 854, 814, 801 cm^{-1}
I-980	foam ^{1}H NMR (CDCl$_3$) δ 1.76 (d, J = 0.9 Hz, 3H), 1.81 (d, J = 0.9 Hz, 3H), 2.71 (s, 3H), 3.20 (s, 3H), 3.24 (s, 3H), 3.57 (s, 3H), 3.79 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.49 (m, 1H), 6.86 (s, 1H), 7.09 (d, J = 8.7 Hz, 1H), 7.31-7.40 (m, 3H), 7.48-7.55 (m, 3H) IR (CHCl$_3$) 1517, 1474, 1365, 1269, 1236, 1177, 1140, 1116, 1078, 964, 923, 854, 814 cm^{-1}
I-981	mp 122-123 ℃ ^{1}H NMR (CDCl$_3$) δ 1.77 (s, 3H), 1.82 (d, J = 0.4 Hz, 3H), 3.62 (s, 3H), 3.75 (s, 3H), 4.63 (d, J = 6.6 Hz, 2H), 5.53 (m, 1H), 5.70 (s, 1H), 5.73 (s, 1H), 6.46 (s, 1H), 6.86 (s, 1H), 6.89-7.13 (m, 4H), 7.29-7.46 (m, 3H) IR (KBr) 3366, 1587, 1496, 1482, 1462, 1449, 1408, 1371, 1313, 1290, 1245, 1210, 1126, 1093, 1073, 1001, 783, 770 cm^{-1}

Table 194

I-982	mp 171-172 ℃ ^{1}H NMR (CDCl$_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 3.48 (s, 3H), 3.74 (s, 3H), 4.61 (d, J = 6.9 Hz, 2H), 4.91 (s, 1H), 5.53 (m, 1H), 5.70 (s, 1H), 5.91 (s, 1H), 6.46 (s, 1H), 6.86 (m, 1H), 6.91-7.02 (m, 2H), 7.06 (m, 1H), 7.13 (m, 1H), 7.21 (m, 1H), 7.32 (m, 1H) IR (KBr) 3368, 1585, 1519, 1507, 1484, 1460. 1450, 1403, 1294, 1255, 1237, 1206, 1110, 1072, 1006, 789, 766 cm^{-1}
I-983	mp 92.5-93 ℃ ^{1}H NMR (CDCl$_3$) δ 1.77 (s, 3H), 1.83 (d, J = 0.9 Hz, 3H), 2.26 (s, 3H), 2.27 (s, 3H), 4.63 (d, J = 6.9 Hz, 2H), 5.13 (d, J = 3.9 Hz, 1H), 5.55 (m, 1H), 6.98-7.14 (m, 8H) IR (CHCl$_3$) 3578, 2922, 1618, 1522, 1490, 1383, 1282, 1120, 979, 873, 824 cm^{-1}
I-984	mp 89-95 ℃ ^{1}H NMR (CDCl$_3$) δ 1.77 (s, 6H), 1.81 (d, J = 0.9 Hz, 6H), 2.27 (s, 6H), 4.63 (d, J = 6.6 Hz, 4H), 5.55 (m, 2H), 6.98-7.14 (m, 8H) IR (CHCl$_3$) 2930, 1576, 1520, 1490, 1382, 1296, 1270, 1127, 987, 874 cm^{-1}
I-985	mp 74-75 ℃ ^{1}H NMR (CDCl$_3$) δ 2.16 (s, 3H), 2.69 (s, 3H), 3.14 (s, 3H), 3.20 (s, 3H), 3.56 (s, 3H), 5.20 (s, 2H), 7.16-7.49 (m, 11H), 7.65-7.68 (m, 2H) IR (CHCl$_3$) 2939, 1732, 1613, 1518, 1478, 1454, 1415, 1371, 1331, 1292, 1268, 1176, 1150, 1118, 1088, 1010, 969, 950, 872 cm^{-1}
I-986	mp 50-52 ℃ ^{1}H NMR (CDCl$_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.16 (s, 3H), 2.74 (s, 3H), 3.20 (s, 3H), 3.24 (s, 3H), 3.57 (s, 3H), 4.64-4.66 (d, J = 6.3 Hz, 2H), 5.50 (m, 1H), 7.10-7.39 (m, 6H), 7.66-7.68 (m, 2H) IR (CHCl$_3$) 2938, 1613, 1518, 1477, 1370, 1331, 1290, 1267, 1176, 1150, 1117, 1088, 970, 949, 871 cm^{-1}

Table 195

I-987	^{1}H NMR ($CDCl_3$) δ 1.59-1.60 (d, J = 0.6 Hz, 3H), 1.70-1.71 (d, J = 0.9 Hz, 3H), 2.26(s, 3H), 2.28 (s, 3H), 2.36 (m, 1H), 2.77 (m, 1H), 3.20 (s, 3H), 3.23 (s, 3H), 5.24 (m, 1H), 7.12 (s, 1H), 7.15 (s, 1H), 7.23-7.25 (m, 1H), 7.33-7.42 (m, 6H)
I-988	mp 159-161 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 2.12 (s, 3H), 3.48 (s, 3H), 4.61-4.64 (d, J = 6.6 Hz, 2H), 4.75 (br, 1H), 5.54 (m, 1H), 5.69 (s, 1H), 5.73 (s, 1H), 6.77-6.98 (m, 6H), 7.51-7.54 (m, 2H) IR ($CHCl_3$) 3595, 3529, 2937, 1613, 15787, 1522, 1489, 1455, 1401, 1310, 1289, 1173, 1127, 1095, 1009, 939, 835 cm^{-1}
I-989	mp 126-128 ℃ ^{1}H NMR ($CDCl_3$) δ 2.25 (s, 3H), 3.78 (s, 3H), 5.16 (s, 2H), 5.75 (br, 1H), 6.83-6.89 (m, 4H), 6.98-7.00 (m, 2H), 7.17 (s, 1H), 7.40-7.47 (m, 7H) IR ($CHCl_3$) 3596, 3543, 2937, 1610, 1588, 1523, 1493, 1465, 1455, 1388, 1328, 1315, 1262, 1173, 1126, 1038, 1012, 835 cm^{-1}
I-990	mp 87-90 ℃ ^{1}H NMR ($CDCl_3$) δ 1.59-1.60 (d, J = 0.6 Hz, 3H), 1.72-1.73 (d, J = 0.9 Hz, 3H), 2.26 (s, 3H), 2.28 (s, 3H), 2.34-2.37 (m, 2H), 2.66-2.71 (m, 2H), 4.84-4.86 (br, 2H), 5.28 (m, 1H), 6.79 (d, J = 1.5 Hz, 1H), 6.86-6.89 (m, 3H), 7.11-7.17 (m, 3H), 7.23-7.26 (m, 2H) IR ($CHCl_3$) 3598, 2925, 2859, 1612, 1569, 1521, 1488, 1450, 1425, 1414, 1328, 1257, 1171, 1101, 958, 836 cm^{-1}
I-991	mp 174-176 ℃ ^{1}H NMR ($CDCl_3$) δ 2.26 (s, 3H), 3.13 (s, 3H), 3.18 (s, 3H), 3.80 (s, 3H), 5.19 (s, 2H), 6.84 (s, 1H), 7.13 (d, J = 8.4 Hz, 1H), 7.18 (s, 1H), 7.28-7.50 (m, 9H), 7.59-7.62 (m, 2H) IR ($CHCl_3$) 2940, 1732, 1613, 1520, 1490, 1465, 1455, 1415, 1371, 1331, 1291, 1260, 1173, 1149, 1111, 1038, 1018, 1003, 971, 872, 813 cm^{-1}

Table 196

I-992	mp 135-137 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77-1.78 (d, J = 0.9 Hz, 3H), 1.82-1.83 (d, J = 0.6 Hz, 3H), 2.26 (s, 3H), 3.18 (s, 3H), 3.24 (s, 3H), 3.80 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.52 (m, 1H), 6.84 (s, 1H), 7.07 (d, J = 8.7 Hz, 1H), 7.18 (s, 1H), 7.25-7.35 (m, 4H), 7.59-7.62 (m, 2H) IR ($CHCl_3$) 3596, 3539, 2937, 1610, 1587, 1523, 1492, 1464, 1454, 1388, 1328, 1315, 1292, 1261, 1173, 1126, 1038, 996, 834 cm^{-1}
I-993	mp 131-133 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.83 (s, 3H), 2.26 (s, 3H), 3.78 (s, 3H), 4.61-4.64 (d, J = 6.9 Hz, 2H), 5.17 (br, 1H), 5.35 (m, 1H), 5.78 (br, 1H), 6.83-6.99 (m, 6H), 7.17 (s, 1H), 7.44-7.47 (m, 2H) IR ($CHCl_3$) 3596, 3539, 2937, 1610, 1587, 1523, 1492, 1464, 1454, 1388, 1328, 131, 1292, 1261, 1173, 1126, 1038, 996, 834 cm^{-1}
I-994	mp 127-130 ℃ ^{1}H NMR ($CDCl_3$) δ 1.73 (d, J = 0.9 Hz, 3H), 1.76 (d, J = 0.9 Hz, 3H), 2.99 (s, 6H), 3.73-3.76 (m, 2H), 3.78 (s, 6H), 3.88 (s, 3H), 5.37-5.40 (m, 1H), 5.83 (d, J = 7.8 Hz, 1H), 6.78-6.84 (m, 2H), 6.95 (s, 1H), 6.96 (s, 1H), 7.06-7.12 (m, 2H), 7.48-7.53 (m, 2H)
I-995	mp91-93 ℃ ^{1}H NMR ($CDCl_3$) δ 1.78 (s, 3H), 1.84 (s, 3H), 2.02 (s, 6H), 4.63 (d, J = 6.4 Hz, 2H), 5.07 (s, 1H), 5.15 (s, 1H), 5.55 (t, J = 7.0 Hz, 1H), 6.63 (dd, J = 2.0, 8.2 Hz, 1H), 6.77 (d, J = 2.0 Hz, 1H), 6.93-6.99 (m, 4H), 7.39 (d, J = 8.6 Hz, 2H) IR(KBr) 3423, 2921, 1611, 1518, 1474, 1282, 1244, 1205, 1125, 1089, 995, 837, 815, 785 cm^{-1}
I-996	mp185-186 ℃ ^{1}H NMR ($CDCl_3$) δ 1.32 (t, J = 7.5 Hz, 3H), 2.71 (q, J = 7.5 Hz, 2H), 3.46 (s, 3H), 3.76 (s, 3H), 5.15 (s, 2H), 5.69 (s, 1H), 5.89 (s, 1H), 6.94-7.08 (m, 3H), 7.37-7.46 (m, 5H), 7.54-7.59 (m, 2H), 7.82 (brs, 1H), 7.93 (d, J = 8.1 Hz, 1H) IR(KBr) 3504, 3269, 2968, 2936, 1708, 1532, 1518, 1487, 1311, 1286, 1193, 1121, 1071, 1014 cm^{-1}

Table 197

I-997	mp77-78 ℃ ^{1}H NMR ($CDCl_3$) δ 1.73 (s, 3H), 1.77 (s, 3H), 1.82 (s, 3H), 2.70 (s, 3H), 3.25 (s, 3H), 3.55 (s, 3H), 3.82 (s, 3H), 4.65 (d, J = 6.9 Hz, 2H), 4.94 (d, J = 7.5 Hz, 2H), 5.31 (t, J = 8.7 Hz, 1H), 5.50 (t, J = 6.6 Hz, 1H), 6.87 (s, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.28-7.39 (m, 3H), 7.87 (d, J = 8.1 Hz, 1H), 7.99 (s, 1H) IR(KBr) 3431, 2939, 1702, 1518, 1483, 1368, 1308, 1204, 1177, 1121, 1092, 1079, 957, 804 cm^{-1}
I-998	mp144-145 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 3.48 (s, 3H), 3.69 (s, 3H), 3.80 (s, 6H), 4.61 (d, J = 6.9 Hz, 2H), 5.51 (t, J = 4.8 Hz, 1H), 5.66 (brs, 1H), 5.76 (brs, 1H), 6.30 (s, 1H), 6.69 (d, J = 8.1 Hz, 2H), 6.93-7.01 (m, 2H), 7.11 (d, J = 2.1 Hz, 1H), 7.31-7.37 (m, 1H) IR(KBr) 3476, 2936, 1589, 1517, 1500, 1472, 1408, 1288, 1249, 1111 cm^{-1}
I-999	mp82-83 ℃ ^{1}H NMR ($CDCl_3$) δ 2.71 (s, 3H), 3.15 (s, 3H), 3.48 (s, 3H), 3.56 (s, 3H), 3.72 (s, 3H), 3.80 (s, 6H), 4.66 (s, 2H), 4.79 (s, 2H), 5.19 (s, 2H), 6.69 (s, 1H), 7.14-7.17 (m, 1H), 7.36-7.49 (m, 8H) IR(KBr) 3434, 2939, 1719, 1613, 1581, 1508, 1463, 1396, 1365, 1294, 1272, 1238, 1177, 1122, 1078, 814 cm^{-1}
I-1000	mp85-86 ℃ ^{1}H NMR ($CDCl_3$) δ 1.31 (t, J = 7.5 Hz, 3H), 2.66 (s, 3H), 2.71 (q, J = 7.6 Hz, 2H), 3.13 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 5.19 (s, 2H), 6.85 (s, 1H), 7.15 (d, J = 8.8 Hz, 1H), 7.33-7.59 (m, 4H), 7.85 (brs, 1H), 7.94 (d, J = 8.4 Hz, 1H) IR(KBr) 3432, 2939, 1727, 1519, 1480, 1365, 1237, 1165, 1079, 959, 803 cm^{-1}
I-1001	mp105-106 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 6H), 1.79 (s, 3H), 1.82 (s, 3H), 3.49 (s, 3H), 3.75 (s, 3H), 3.81 (d, J = 6.6 Hz, 2H), 4.62 (d, J = 7.2 Hz, 2H), 5.37 (t, J = 6.3 Hz, 1H), 5.53 (t, J = 6.9 Hz, 1H), 5.68 (brs, 1H), 5.87 (brs, 1H), 6.82 (d, J = 8.4 Hz, 1H), 6.95 (s, 2H), 7.05 (s, 1H), 7.26 (s, 1H), 7.69 (dd, J = 2.1, 8.4 Hz, 1H), 7.75 (brs, 1H) IR(KBr) 3459, 2934, 1622, 1582, 1525, 1493, 1467, 1327, 1240, 1139, 1113, 1070, 817 cm^{-1}

Table 198

I-1002	mp89-91 ℃ ^{1}H NMR ($CDCl_3$) δ 2.70 (s, 3H), 3.12 (s, 3H), 3.55 (s, 3H), 3.71 (s, 3H), 3.79 (s, 6H), 4.77 (s, 2H), 5.18 (s, 2H), 6.69 (s, 2H), 7.14 (d, J = 8.8 Hz, 1H), 7.38-7.52 (m, 8H) IR(KBr) 3440, 2939, 1721, 1612, 1581, 1508, 1463, 1395, 1364, 1238, 1178, 1120, 1078, 962, 814, 523 cm^{-1}
I-1003	mp196-197 ℃ ^{1}H NMR ($CDCl_3$) δ 2.26 (s, 3H), 3.48 (s, 3H), 3.76 (s, 3H), 5.16 (s, 2H), 5.69 (brs, 1H), 5.83 (brs, 1H), 6.44 (s, 1H), 6.93-7.05 (m, 4H), 7.26-7.45 (m, 6H), 7.84 (d, J = 8.1 Hz, 1H), 7.92 (s, 1H), 8.29 (brs, 1H) IR(KBr) 3407, 2934, 1672, 1589, 1524, 1459, 1425, 1400, 1316, 1288, 1213, 1119, 1057, 1006, 745 cm^{-1}
I-1004	mp80-81 ℃ ^{1}H NMR ($CDCl_3$) δ 1.29 (t, J = 7.5 Hz, 3H), 1.72 (s, 3H), 1.76 (s, 6H), 1.81 (s, 3H), 2.70 (s, 3H), 2.71 (q, J = 7.5 Hz, 2H), 3.24 (s, 3H), 3.50 (s, 3H), 3.81 (s, 3H), 4.64 (d, J = 6.3 Hz, 2H), 4.72-4.76 (m, 2H), 5.31 (t, J = 6.9 Hz, 1H), 5.50 (t, J = 6.3 Hz, 1H), 6.87 (s, 1H), 7.08-7.12 (m, 2H), 7.34-7.41 (m, 3H), 7.61 (s, 1H) IR(KBr) 3434, 2974, 2938, 1694, 1517, 1480, 1366, 1237, 1202, 1177, 1080, 972, 807, 523 cm^{-1}
I-1005	mp157-158 ℃ ^{1}H NMR ($CDCl_3$) δ 1.31 (t, J = 7.8 Hz, 3H), 1.77 (s, 3H), 1.81 (s, 3H), 2.71 (s, 3H), 2.71 (q, J = 7.8 Hz, 2H), 3.24 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.50 (t, J = 8.1 Hz, 2H), 6.85 (s, 1H), 7.09 (d, J = 8.4 Hz, 1H), 7.33-7.38 (m, 2H), 7.52 (d, J = 8.1 Hz, 1H), 7.58 (s, 1H), 7.84 (brs, 1H), 7.94 (d, J = 8.1 Hz, 1H) IR(KBr) 3434, 3350, 2938, 1727, 1523, 1480, 1368, 1248, 1178, 1165, 1080, 972, 816, 802, 522 cm^{-1}
I-1006	mp91-93 ℃ ^{1}H NMR ($CDCl_3$) δ 1.30 (t, J = 7.5 Hz, 3H), 1.75 (s, 6H), 1.79 (s, 3H), 1.81 (s, 3H), 2.55 (q, J = 7.5 Hz, 2H), 3.48 (s, 3H), 3.74 (s, 3H), 3.79 (d, J = 6.3 Hz, 2H), 4.61 (d, J = 6.6 Hz, 2H), 5.41 (t, J = 6.0 Hz, 1H), 5.53 (t, J = 6.9 Hz, 1H), 5.67 (brs, 1H), 5.94 (brs, 1H), 6.48 (s, 1H), 6.72 (d, J = 8.4 Hz, 1H), 6.95 (s, 2H), 7.07 (s, 1H), 7.37-7.45 (m, 2H), 7.64 (d, J = 7.5 Hz, 1H), . IR(KBr) 3433, 2932, 1609, 1521, 1489, 1461, 13958, 1308, 1286, 1245, 1192, 1114, 1072, 1011, 811 cm^{-1}

Table 199

I-1007	mp71-72 ℃ ^{1}H NMR ($CDCl_3$) δ 1.31 (t, J = 7.5 Hz, 3H), 1.76 (s, 3H), 1.82 (s, 3H), 2.60 (q, J = 7.2 Hz, 2H), 3.47 (s, 3H), 3.75 (s, 3H), 4.61 (d, J = 6.6 Hz, 2H), 5.53 (t, J = 6.9 Hz, 2H), 5.69 (brs, 1H), 5.93 (brs, 1H), 6.47 (s, 1H), 6.78 (d, J = 8.1 Hz, 1H), 6.95 (s, 2H), 7.06 (s, 1H), 7.26 (s, 1H), 7.39 (s, 1H) IR(KBr) 3436, 2932, 1620, 1584, 1519, 1487, 1459, 1397, 1285, 1242, 1112, 1072, 819 cm^{-1}
I-1008	mp 171-173 ℃ ^{1}H NMR ($CDCl_3$) δ 3.46 (s, 3H), 3.75 (s, 3H), 5.15 (s, 2H), 5.68 (s, 1H), 5.88 (s, 1H), 6.44 (s, 1H), 6.95 (dd, J = 8.4, 1.9 Hz, 1H), 7.03 (d, J = 8.4 Hz, 1H), 7.08 (d, J = 1.9 Hz, 1H), 7.37-7.48 (m, 7H), 7.59 (d, J = 8.4 Hz, 2H) IR (KBr) 3544, 3514, 3462, 1517, 1482, 1388, 1284, 1247, 1089, 1107, 1069, 1006, 938, 822 cm^{-1}
I-1009	mp 180-182 ℃ ^{1}H NMR ($CDCl_3$) δ 2.68 (s, 3H), 3.13 (s, 3H), 3.53 (s, 3H), 3.77 (s, 3H), 5.19 (s, 2H), 6.83 (s, 1H), 7.15 (d, J = 8.4 Hz, 1H), 7.32-7.49 (m, 9H), 7.57 (d, J = 8.7 Hz, 2H) IR (KBr) 1518, 1478, 1370, 1177, 1085, 1012, 813, 797 cm^{-1}
I-1010	mp 128-130 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 3.46 (s, 3H), 3.75 (s, 3H), 4.62 (d, J = 7.0 Hz, 2H), 5.53 (t, J = 7.0 Hz, 1H), 5.69 (s, 1H), 5.85 (s, 1H), 6.44 (s, 1H), 6.93 (dd, J = 8.4, 1.6 Hz, 1H), 6.97 (d, J = 8.4 Hz, 1H), 7.05 (d, J = 1.6 Hz, 1H), 7.42 (d, J = 8.4 Hz, 2H), 7.59 (d, J = 8.4 Hz, 2H) IR (KBr) 1517, 1482, 1287, 1244, 1106, 1070, 1013, 822, 783 cm^{-1}
I-1011	mp 138-140 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.72 (s, 3H), 3.23 (s, 3H), 3.54 (s, 3H), 3.78 (s, 3H), 4.64 (d, J = 6.5 Hz, 2H), 5.49 (t, J = 6.5 Hz, 1H), 6.83 (s, 1H), 7.09 (d, J = 8.3 Hz, 1H), 7.34 (dd, J = 8.3, 2.0 Hz, 1H), 7.39 (d, J = 2.0 Hz, 1H), 7.43 (d, J = 8.6 Hz, 2H), 7.57 (d, J = 8.6 Hz, 2H) IR (KBr) 1518, 1478, 1369, 1177, 1083, 972, 814, 795 cm^{-1}

Table 200

I-1012	mp 135-138 ℃ ^{1}H NMR ($CDCl_3$) δ 1.55-1.63 (m, 2H), 1.77 (s, 6H), 1.83 (s, 6H), 4.56 (d, J = 6.6 Hz, 4H), 4.66 (d, J = 4.5 Hz, 4H), 5.50-5.58 (m, 2H), 6.96-7.01 (m, 4H), 7.32-7.38 (m, 4H), 7.45 (s, 2H) IR (KBr) 3339, 2914, 1609, 1520, 1488, 1385, 1289, 1238, 1177, 1000, 834, 651 cm^{-1}
I-1013	mp 202-205 ℃ ^{1}H NMR ($CDCl_3$+CD_3OD) δ 1.78 (s, 3H), 1.82 (s, 3H), 4.57 (d, J = 6.6 Hz, 2H), 4.62 (s, 4H), 5.50-5.56 (m, 1H), 6.86-7.00 (m, 4H), 7.24-7.37 (m, 4H), 7.44 (s, 2H) IR (KBr) 3399, 2974, 2930, 1610, 1522, 1489, 1438, 1383, 1238, 1176, 999, 903, 838, 538 cm^{-1}
I-1014	mp 219-221 ℃ ^{1}H NMR ($CDCl_3$) δ 2.22 (s, 3H), 2.69 (s, 3H), 3.13 (s, 3H), 3.53 (s, 3H), 3.77 (s, 3H), 5.19 (s, 2H), 6.85 (s, 1H), 7.15 (d, J = 8.4 Hz, 1H), 7.32-7.49 (m, 7H), 7.60 (s, 4H) IR (KBr) 3384, 1701, 1604, 1524, 1482, 1355, 1294, 1176, 1084, 1011, 945, 818 cm^{-1}
I-1015	mp 173-175 ℃ ^{1}H NMR (DMSO-d_6) δ 1.74 (s, 3H), 1.77 (s, 3H), 2.08 (s, 3H), 2.87 (s, 3H), 3.35 (s, 3H), 3.47 (s, 3H), 3.77 (s, 3H), 4.68 (d, J = 6.4 Hz, 2H), 5.48 (t, J = 6.4 Hz, 1H), 7.02 (s, 1H), 7.26-7.29 (m, 3H), 7.57 (d, J = 8.7 Hz, 2H), 7.70 (d, J = 8.7 Hz, 2H), 10.07 (s, 1H) IR (KBr) 3383, 1704, 1235, 1524, 1481, 1360, 1177, 1083, 976, 816 cm^{-1}
I-1016	mp 144-145 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.70 (s, 3H), 3.21 (s, 3H), 3.52 (s, 3H), 3.69 (d, J = 1.6 Hz, 3H), 4.65 (d, J = 6.8 Hz, 2H), 5.53 (t, J = 6.8 Hz, 1H), 7.08 (t, J = 8.4 Hz, 1H), 7.16 (dd, J = 8.4, 1.8 Hz, 1H), 7.20 (dd, J = 11.7, 1.8 Hz, 1H), 7.41 (d, J = 8.8 Hz, 2H), 7.59 (dd, J = 8.8, 1.4 Hz, 2H) IR (KBr) 1521, 1470, 1368, 1265, 1177, 1151, 1038, 971, 875 cm^{-1}

Table 201

I-1017	mp 196-198 ℃ ^{1}H NMR (DMSO-d_6) δ 1.72 (s, 3H), 1.76 (s, 3H), 2.07 (s, 3H), 3.31 (s, 3H), 3.65 (s, 3H), 4.55 (d, J = 6.6 Hz, 2H), 5.49 (t, J = 6.6 Hz, 1H), 6.43 (s, 1H), 6.65 (dd, J = 8.4, 1.9 Hz, 1H), 6.73 (d, J = 1.9 Hz, 1H), 6.90 (d, J = 8.4 Hz, 1H), 7.55 (d, J = 8.6 Hz, 2H), 7.66 (d, J = 8.6 Hz, 2H), 8.58 (br s, 1H), 8.70 (br s, 1H), 10.02 (s, 1H) IR (KBr) 3358, 1661, 1596, 1523, 1489, 1396, 1308, 1254, 1227, 1114, 1074 cm^{-1}
I-1018	mp 141-143 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.81 (s, 3H), 3.40 (s, 3H), 3.64 (d, J = 0.9 Hz, 3H), 4.64 (d, J = 6.9 Hz, 2H), 4.89 (s, 1H), 5.56 (t, J = 6.9 Hz, 1H), 5.70 (s, 1H), 6.94 (d, J = 8.7 Hz, 2H), 7.06 (t, J = 8.7 Hz, 1H), 7.21 (ddd, J = 8.4, 2.1, 1.1 Hz, 1H), 7.27 (dd, J = 12.3, 2.1 Hz, 1H), 7.44 (dd, J = 8.7, 1.5 Hz, 2H) IR (KBr) 3485, 1523, 1466, 1402, 1266, 1173, 1036, 961, 918, 837, 814 cm^{-1}
I-1019	mp81-82 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.26 (s, 3H), 2.72 (s, 3H), 3.23 (s, 3H), 3.57 (s, 3H), 3.79 (s, 3H), 4.64 (d, J = 6.3 Hz, 2H), 5.49 (t, J = 6.3 Hz, 1H), 6.83 (s, 1H), 7.09 (d, J = 8.4 Hz, 1H), 7.33-7.39 (m, 2H), 7.48 (s, 1H), 7.82 (d, J = 6.0 Hz, 1H), 7.88 (s, 1H), 8.32 (brs, 1H) IR(KBr) 3382, 2939, 1736, 1520, 1483, 1365, 1293, 1178, 1119, 1078, 958, 802, 521 cm^{-1}
I-1020	mp93-94 ℃ ^{1}H NMR ($CDCl_3$) δ 2.62 (s, 3H), 2.99 (s, 3H), 3.15 (s, 3H), 3.20 (s, 3H), 3.83 (s, 3H), 5.21 (s, 2H), 6.91 (s, 2H), 7.17 (d, J = 8.2 Hz, 1H), 7.35-7.48 (m, 8H), 7.63 (d, J = 8.4 Hz, 2H) IR(KBr) 3434, 3033, 2938, 1611, 1520, 1479, 1366, 1179, 1151, 1085, 969, 850, 793, 519 cm^{-1}

Table 202

I-1021	mp74-75 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 3.48 (s, 3H), 3.75 (s, 3H), 4.61 (d, J = 6.3 Hz, 2H), 5.53 (t, J = 5.4 Hz, 1H), 5.69 (brs, 1H), 5.86 (brs, 1H), 6.42 (s, 1H), 6.83 (d, J = 8.7 Hz, 1H), 6.91-6.98 (m, 2H), 7.04 (s, 1H), 7.62 (d, J = 8.7 Hz, 1H), 7.73 (s, 1H) IR(KBr) 3495, 3398, 2935, 1633, 1522, 1487, 1291, 1246, 1112, 1072, 821, 788 cm^{-1}
I-1022	mp76-77 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 1.84 (s, 3H), 3.52 (s, 3H), 3.78 (s, 3H), 4.63 (d, J = 6.9 Hz, 2H), 5.53 (t, J = 6.6 Hz, 1H), 5.74 (brs, 1H), 5.80 (brs, 1H), 6.47 (s, 1H), 6.92-7.00 (m, 2H), 7.04 (s, 1H), 7.38 (d, J = 8.1 Hz, 1H), 7.93 (d, J = 8.1 Hz, 1H), 8.04 (s, 1H) IR(KBr) 3411, 2934, 1662, 1519, 1488, 1425, 1309, 1245, 1175, 1128, 1071, 1050 cm^{-1}
I-1023	mp81-82 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.66 (s, 3H), 2.99 (s, 3H), 3.18 (s, 3H), 3.25 (s, 3H), 3.82 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.49 (t, J = 6.0 Hz, 1H), 6.90 (s, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.38-7.43 (m, 3H), 7.62 (d, J = 8.8 Hz, 1H), 8.02 (s, 1H) IR(KBr) 3434, 3027, 2938, 1672, 1611, 1520, 1479, 1365, 1179, 1117, 1074, 970, 847, 793, 519 cm^{-1}
I-1024	mp77-79 ℃ ^{1}H NMR ($CDCl_3$) δ 1.78 (s, 3H), 1.83 (s, 3H), 3.77 (s, 3H), 4.63 (d, J = 6.6 Hz, 2H), 5.53 (t, J = 6.2 Hz, 1H), 5.76 (brs, 2H), 6.52 (s, 1H), 6.91-7.02 (m, 6H), 7.46 (d, J = 8.4 Hz, 2H) IR(KBr) 3465, 2935, 1613, 1586, 1524, 1487, 1359, 1282, 1245, 1222, 1173, 1157, 1112, 1065, 974, 857, 521 cm^{-1}
I-1025	mp78-79 ℃ ^{1}H NMR ($CDCl_3$) δ 2.73 (s, 3H), 2.78 (s, 3H), 3.15 (s, 3H), 3.21 (s, 3H), 3.62 (s, 3H), 5.22 (s, 2H), 7.20 (d, J = 8.4 Hz, 1H), 7.37-7.44 (m, 10H), 7.68 (d, J = 8.8 Hz, 2H) IR(KBr) 3433, 3032, 2939, 1519, 1473, 1366, 1178, 1151, 1004, 966, 870, 847, 795, 524 cm^{-1}

Table 203

1-1026	mp 158-159 ℃ ^{1}H NMR ($CDCl_3$) δ 1.47 (t, J = 6.9 Hz, 3H), 2.41 (s, 3H), 3.21 (s, 3H), 3.55 (s, 3H), 3.77 (s, 3H), 4.14 (q, J = 6.9 Hz, 2H), 5.22 (s, 2H), 6.83 (s, 1H), 6.91 (dd, J = 2.1, 8.1 Hz, 1H), 6.96-7.01 (m, 2H), 7.28-7.48 (m, 7H), 7.66-7.72 (m, 2H) IR (KBr) 1517, 1482, 1392, 1362, 1240, 1194, 1175, 1146, 1084, 963, 878, 797 cm^{-1}
1-1027	mp 106-107 ℃ ^{1}H NMR ($CDCl_3$) δ 2.27 (s, 6H), 3.87 (s, 3H), 5.20 (s, 2H), 6.93-7.00 (m, 2H), 7.01-7.17 (m, 5H), 7.23-7.52 (m, 7H) IR (KBr) 1607, 1522, 1490, 1467, 1455, 1383, 1294, 1267, 1246, 1178, 1125, 1028, 1011, 836, 813, 744 cm^{-1}
1-108	mp 162-163 ℃ ^{1}H NMR ($CDCl_3$) δ 1.45 (t, J = 6.9 Hz, 3H), 3.46 (s, 3H), 3.74 (s, 3H), 4.15 (q, J = 6.9 Hz, 2H), 4.98 (s, 1H), 5.19 (s, 2H), 5.91 (s, 1H), 6.45 (s, 1H), 6.88-6.94 (m, 2H), 6.95-7.03 (m, 2H), 7.05 (d, J = 1.2 Hz, 1H), 7.27-7.41 (m, 3H), 7.45-7.56 (m, 4H) IR (KBr) 3424, 3343, 1611, 1521, 1488, 1462, 1454, 1400, 1379, 1358, 1317, 1290, 1278, 1262, 1240, 1225, 1201, 1185, 1127, 1110, 1068, 1026, 1007, 828, 731 cm^{-1}
1-1029	mp 73-74 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.27 (s, 6H), 3.86 (s, 3H), 4.63 (d, J = 7.2 Hz, 2H), 5.56 (m, 1H), 6.92-7.00 (m, 2H), 7.00-7.16 (m, 5H), 7.26-7.34 (m, 2H) IR (KBr) 1610, 1521, 1489, 1461, 1438, 1297, 1276, 1249, 1231, 1181, 1122, 1028, 985, 835 cm^{-1}
1-1030	mp 86-87 ℃ ^{1}H NMR ($CDCl_3$) δ 1.46 (t, J = 6.9 Hz, 3H), 1.75 (s, 3H), 1.79 (d, J = 0.9 Hz, 3H), 2.54 (s, 3H), 3.21 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 4.12 (q, J = 6.9 Hz, 2H), 4.63 (d, J = 6.3 Hz, 2H), 5.53 (m, 1H), 6.84 (s, 1H), 6.93-7.01 (m, 3H), 7.35-7.41 (m, 2H), 7.67-7.73 (m, 2H) IR (KBr) 1518, 1480, 1449, 1413, 1389, 1366, 1239, 1199, 1180, 1150, 1082, 970, 872, 798 cm^{-1}

Table 204

1-1031	mp 145-146 ℃ ^{1}H NMR ($CDCl_3$) δ 1.44 (t, J = 6.9 Hz, 3H), 1.74 (s, 3H), 1.77 (d, J = 0.9 Hz, 3H), 3.47 (s, 3H), 3.75 (s, 3H), 4.13 (q, J = 6.9 Hz, 2H), 4.63 (d, J = 6.6 Hz, 2H), 5.10 (s, 1H), 5.56 (m, 1H), 5.91 (s, 1H), 6.46 (s, 1H), 6.89-6.94 (m, 2H), 6.95-7.03 (m, 3H), 7.50-7.56 (m, 2H) IR (KBr) 3404, 1611, 1520, 1487, 1464, 1442, 1391, 1358, 1293, 1264, 1237, 1224, 1192, 1112, 1071, 1030, 1002, 831 cm^{-1}
1-1032	mp 142-145 ℃ ^{1}H NMR ($CDCl_3$) δ 3.13 (s, 3H), 3.21 (s, 3H), 4.63 (s, 2H), 4.65 (s, 2H), 5.19 (s, 2H), 7.15 (d, J = 8.4 Hz, 1H), 7.33-7.52 (m, 13H) IR (KBr) 3519, 3422, 3380, 3032, 2933, 1611, 1519, 1487, 1364, 1171, 1148, 1109, 969, 871, 817, 527 cm^{-1}
1-1033	mp 103-106 ℃ ^{1}H NMR ($CDCl_3$+CD3OD) δ 1.78 (s, 3H), 1.82 (s, 3H), 3.22 (s, 3H), 3.24 (s, 3H), 4.58-4.67 (m, 6H), 5.46-5.54 (m, 1H), 7.09 (d, J = 8.4 Hz, 1H), 7.33-7.53 (m, 8H) IR (KBr) 3512, 3414, 3012, 2941, 1612, 1519, 1488, 1362, 1335, 1146, 997, 972, 876, 524 cm^{-1}
1-1034	mp 184-187 ℃ ^{1}H NMR ($CDCl_3$+CD3OD) δ 1.78 (s, 3H), 1.82 (s, 3H), 4.59-4.65 (m, 6H), 5.52-5.59 (m, 1H), 6.84-6.98 (m, 5H), 7.23-7.28 (m, 2H), 7.44 (s, 1H), 7.45 (s, 1H) IR (KBr) 3400, 2931, 1611, 1521, 1491, 1247, 1203, 1009, 987, 834 cm^{-1}
1-1035	mp 95-96 ℃ ^{1}H NMR ($CDCl_3$) δ 2.27 (s, 6H), 2.41 (s, 3H), 5.19 (s, 2H), 7.02-7.18 (m, 5H), 7.22-7.54 (m, 9H) IR (KBr) 1522, 1512, 1454, 1377, 1309, 1297, 1274, 1267, 1236, 1125, 1008, 877, 822, 742, 696 cm^{-1}
1-1036	mp 95-96 ℃ ^{1}H NMR ($CDCl_3$) δ 2.24 (s, 3H), 2.27 (s, 3H), 5.19 (s, 2H), 6.99-7.15 (m, 5H), 7.26-7.52 (m, 9H) IR (KBr) 1518, 1499, 1482, 1454, 1380, 1300, 1278, 1262, 1227, 1125, 1090, 1021, 1015, 875, 834, 817, 739 cm^{-1}

Table 205

I-1037	mp 58-59 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (d, J = 0.6 Hz, 3H), 1.81 (d, J = 0.9 Hz, 3H), 2.27 (s, 6H), 2.41 (s, 3H), 4.63 (d, J = 6.6 Hz, 2H), 5.56 (m, 1H), 6.98-7.14 (m, 5H), 7.21-7.29 (m, 4H) IR (KBr) 1520, 1490, 1460, 1444, 1385, 1294, 1271, 1262, 1232, 1125, 1001, 828, 818 cm^{-1}
I-1038	mp 67-68 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.81 (d, J = 0.9 Hz, 3H), 2.25 (s, 3H), 2.27 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.55 (m, 1H), 6.90-7.14 (m, 5H), 7.26-7.32 (m, 2H), 7.36-7.42 (m, 2H) IR (KBr) 1518, 1500, 1482, 1466, 1309, 1299, 1267, 1229, 1124, 1090, 995, 834 cm^{-1}
I-1039	mp 153-155℃ ^{1}H NMR ($CDCl_3$) δ 3.45 (s, 3H), 3.75 (s, 3H), 4.84 (d, J = 4.2 Hz, 2H), 6.43～6.51 (m, 2H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.94～7.00 (m, 2H), 7.08 (brs, 1H), 7.53 (d, J = 8.7 Hz, 2H) IR (KBr) 3411, 1612, 1588, 1523, 1489, 1288, 1245, 1224, 1113, 1070, 1011, 938, 824 cm^{-1}
I-1040	foam ^{1}H NMR ($CDCl_3$) δ 3.28 (d, J = 2.4 Hz, 1H), 3.45 (s, 3H), 3.75 (s, 3H), 4.94 (dd, J = 6.0, 1.8 Hz, 2H), 5.74 (ddt, J = 11.1, 2.4, 1.8 Hz, 1H), 6.27 (dt, J = 11.1, 6.0 Hz, 1H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.94～7.00 (m, 2H), 7.07 (d, J = 2.1 Hz, 1H), 7.53 (d, J = 8.7 Hz, 2H) IR (KBr) 3433, 3279, 1612, 1588, 1523, 1489, 1286, 1248, 1223, 1113, 1070, 1011, 938, 825 cm^{-1}
I-1041	foam ^{1}H NMR ($CDCl_3$) δ 3.45 (s, 3H), 3.75 (s, 3H), 4.90 (d, J = 1.8 Hz, 2H), 5.55 (dd, J = 10.8, 2.4 Hz, 1H), 5.71 (dd, J = 17.7, 2.4 Hz, 1H), 5.85 (ddt, J = 17.7, 10.8, 1.8 Hz, 1H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.97 (dd, J = 8.4, 2.1 Hz, 1H), 7.07 (d, J = 8.4 Hz, 1H), 7.08 (d, J = 2.1 Hz, 1H), 7.53 (d, J = 8.7 Hz, 2H) IR (KBr) 3433, 1612, 1589, 1523, 1489, 1286, 1224, 1192, 1112, 1070, 1002, 937, 825, 815 cm^{-1}

Table 206

I-1042	mp 185-187 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.76 (s, 3H), 3.23 (s, 3H), 3.50 (s, 3H), 3.78 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.50 (t, J = 6.6 Hz, 1H), 6.63 (t, J = 2.4 Hz, 1H), 6.95 (s, 1H), 7.09 (d, J = 8.5 Hz, 1H), 7.26-7.29 (m, 1H), 7.37 (dd, J = 8.5, 2.1 Hz, 1H), 7.42 (d, J = 2.1 Hz, 1H), 7.45-7.51 (m, 2H), 7.89 (s, 1H), 8.26 (br s, 1H) IR (KBr) 3418, 1473, 1362, 1177, 1079, 961, 817, 796 cm^{-1}
I-1043	mp 152-154 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 3.43 (s, 3H), 3.76 (s, 3H), 4.61 (d, J = 6.9 Hz, 2H), 5.53 (t, J = 6.9 Hz, 1H), 5.69 (s, 1H), 5.98 (s, 1H), 6.55 (s, 1H), 6.63 (t, J = 2.1 Hz, 1H), 6.94-7.01 (m, 2H), 7.10 (d, J = 0.9 Hz, 1H), 7.25-7.27 (m, 1H), 7.46 (d, J = 8.4 Hz, 1H), 7.51 (dd, J = 8.5, 1.5 Hz, 1H), 7.89 (s, 1H), 8.24 (br s, 1H) IR ($CHCl_3$) 3529, 3480, 1515, 1495, 1407, 1291, 1246, 1107, 1070 cm^{-1}
I-104	mp 127-128 ℃ ^{1}H NMR ($CDCl_3$) δ 2.45 (s, 3H), 3.52 (s, 3H), 3.77 (s, 3H), 3.91 (s, 3H), 5.22 (s, 2H), 6.84 (s, 1H), 6.91 (dd, J = 8.4, 2.1 Hz, 1H), 6.79-7.00 (m, 2H), 7.12-7.18 (m, 2H), 7.30-7.47 (m, 5H), 7.59-7.63 (m, 2H) IR ($CHCl_3$) 2938, 2843, 1606, 1585, 1520, 1483, 1464, 1443, 1390, 1368, 1174, 1141, 1083, 1013, 962, 936, 865, 838 cm^{-1}
I-1045	mp 124-127 ℃ ^{1}H NMR ($CDCl_3$) δ 2.46 (s, 3H), 3.55 (s, 3H), 3.77 (s, 3H), 3.91 (s, 3H), 5.21 (s, 2H), 5.42 (br, 1H), 6.82 (s, 1H), 6.90 (dd, J = 8.4, 1.8 Hz, 1H), 6.97-7.10 (m, 3H), 7.29-7.47 (m, 7H) IR ($CHCl_3$) 3579, 2938, 1600, 1523, 1484, 1464, 1393, 1368, 1327, 1282, 1174, 1141, 1081, 1036, 1012, 962, 908 cm^{-1}
I-1046	mp 178-180 ℃ ^{1}H NMR ($CDCl_3$) δ 2.44 (s, 3H), 3.29 (s, 3H), 3.58 (s, 3H), 3.78 (s, 3H), 3.91 (s, 3H), 5.22 (s, 2H), 6.83 (s, 1H), 6.99 (dd, J = 8.1, 2.1 Hz, 1H), 6.97-7.25 (m, 2H), 7.31-7.58 (m, 8H) IR ($CHCl_3$) 2939, 2840, 1591, 1519, 1483, 1464, 1374, 1331, 1173, 1141, 1116, 1082, 1012, 964, 863 cm^{-1}

Table 207

I-107	mp 98-99 ℃ ^{1}H NMR ($CDCl_3$) δ 2.35 (s, 3H), 5.22 (s, 2H), 6.59 (t, J F-H = 54.6 Hz, 2H), 7.09-7.50 (m, 12H), 7.74-7.75 (d, J = 4.5 Hz, 2H) IR ($CHCl_3$) 1752, 1523, 1493, 1384, 1273, 1169, 1133, 1070, 1037, 916, 851 cm^{-1}
I-1048	mp 112-114 ℃ ^{1}H NMR ($CDCl_3$) δ 1.75-1.76 (d, J = 0.6 Hz, 3H), 1.78-1.79 (d, J = 0.9 Hz, 3H), 2.57 (s, 3H), 3.53 (s, 3H), 3.78 (s, 3H), 3.89 (s, 3H), 4.62-4.64 (d, J = 7.5 Hz, 2H), 5.54 (s, 1H), 6.84 (s, 1H), 6.96-6.97 (m, 3H), 7.12-7.18 (m, 2H), 7.59-7.64 (m, 2H) IR ($CHCl_3$) 2938, 1606, 1583, 1519, 1483, 1464, 1443, 1416, 1389, 1368, 1175, 1141, 1083, 1038, 1013, 962, 936, 865, 838 cm^{-1}
I-1049	mp 203-204 ℃ ^{1}H NMR (CD3OD) δ 4.53 (s, 2H),4.55 (s, 2H), 5.21 (s, 2H), 6.84-6.88 (m, 2H), 7.12-7.50 (m, 12H) IR (KBr) 3380, 1611, 1586, 1523, 1490, 1462, 1434, 1380, 1317, 1300, 1258, 1194, 1173, 1128, 1033, 1007, 906, 871, 836, 817, 787, 730, 693, 646 cm^{-1}
I-1050	mp 99-100 ℃ ^{1}H NMR ($CDCl_3$) δ 1.75 (s, 3H), 1.78-1.79 (d, J = 0.9 Hz, 3H), 3.46 (s, 3H), 3.75 (s, 3H), 3.88 (s, 3H), 4.62-4.64 (d, J = 6.6 Hz, 2H), 5.57 (m, 1H), 5.89 (s, 1H), 6.46 (s, 1H), 6.96-7.02 (m, 3H), 7.12-7.18 (m, 2H), 7.59-7.64 (m, 2H) IR ($CHCl_3$) 3513, 2938, 1605, 1583, 1490, 1423, 1407, 1392, 1362, 1318, 1269, 1177, 1158, 1140, 1118, 1078, 1038, 1012, 930, 846, 826 cm^{-1}
I-1051	mp 153-154 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.79-1.80 (d, J = 0.9 Hz, 3H), 2.57 (s, 3H), 3.29 (s, 3H), 3.60 (s, 3H), 3.79 (s, 3H), 3.89 (s, 3H), 4.62-4.64 (d, J = 6.6 Hz, 2H), 5.54 (m, 1H), 6.84 (s, 1H), 6.96-6.97 (m, 4H), 7.46-7.59 (m, 3H) IR ($CHCl_3$) 2938, 1592, 1519, 1483, 1464,. 1374, 1332, 1239, 1173, 1141, 1116, 1082, 1038, 1011, 965, 864 cm^{-1}

Table 208

I-1052	amorphous ^{1}H NMR ($CDCl_3$) δ 2.12 (s, 3H), 3.47 (s, 3H), 5.15 (s, 2H), 5.82-6.08 (m, 3H), 6.70-6.95 (m, 5H), 7.02 (d, J = 8.1 Hz, 1H), 7.39-7.52 (m, 7H) IR ($CHCl_3$) 3597, 3535, 2937, 1731, 1612, 1589, 1522, 1489, 1455, 1401, 1382, 1328, 1309, 1288, 1173, 1128, 1096, 1011, 939, 835 cm^{-1}
I-1053	mp 141-142 ℃ ^{1}H NMR ($CDCl_3$) δ 1.75 (s, 3H), 1.78-1.79 (d, J = 0.9 Hz, 3H), 3.49 (s, 3H), 3.76 (s, 3H), 3.89 (s, 3H), 4.62-4.64 (d, J = 6.6 Hz, 2H), 5.30 (d, J F-H = 3.3 Hz, 1H), 5.57 (m, 1H), 5.88 (s, 1H), 6.46 (s, 1H), 6.99-7.11 (m, 4H), 7.33 (m, 1H), 7.43 (dd, J = 11.7, 2.1 Hz, 1H) IR ($CHCl_3$) 3578, 3514, 1621, 1600, 1583, 1523, 1492, 1464, 1397, 1320, 1279, 1175, 1140, 1116, 1100, 1076, 1038, 1011, 902 cm^{-1}
I-1054	mp 138-140 ℃ ^{1}H NMR ($CDCl_3$) δ 5.17 (s, 2H), 5.60 (s, 1H), 5.72 (s, 1H), 6.98-7.02 (m, 2H), 7.10-7.14 (m, 3H), 7.18 (s, 1H), 7.35 (s, 1H), 7.37-7.47 (m, 5H), 7.59-7.61 (m, 2H) IR (KBr) 3600-2800(br), 1590, 1528, 1503, 1483, 1454, 1386, 1294, 1254, 1223, 1187, 1132, 1086, 1009 cm^{-1}
I-1055	mp 176-178 ℃ ^{1}H NMR ($CDCl_3$) δ 3.13 (s, 3H), 3.32 (s, 3H), 5.19 (s, 2H), 7.16 (d, J = 8.7 Hz, 1H), 7.37-7.55 (m, 9H), 7.61-7.64 (m, 4H) IR (KBr) 3600-2800(br), 1611, 1525, 1503, 1469, 1359, 1290, 1244, 1170, 1088, 979 cm^{-1}
I-1056	mp 134-136 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.81 (s, 3H), 3.23 (s, 3H), 3.32 (s, 3H), 4.64 (d, J = 6.9 Hz, 1H), 5.48-5.54 (m, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.44-7.55 (m, 4H), 7.58-7.65 (m, 4H) IR (KBr) 3600-2800(br), 1609, 1527, 1504, 1469, 1351, 1289, 1277, 1186, 1171, 1115, 1089, 973 cm^{-1}

Table 209

I-1057	mp 97-100 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (d, J = 0.9 Hz, 3H), 1.82 (d, J = 0.9 Hz, 3H), 4.63 (d, J = 7.2 Hz, 2H), 5.50-5.54 (m, 1H), 5.62 (br s, 1H), 5.74 (br s, 1H), 6.95 (d, J = 8.7 Hz, 1H), 7.12 (dd, J = 2.4, 8.7 Hz, 1H), 7.18 (s 1H), 7.24 (d, J = 2.4 Hz, 1H), 7.36 (s, 1H), 7.42-7.46 (m, 2H), 7.58-7.62 (m, 2H) IR (KBr) 3600-2800(br), 1599, 1588, 1528, 1482, 1385, 1326, 1289, 1252, 1212, 1193, 1132, 1112, 1084, 1056, 1001 cm^{-1}
I-1058	mp 216-218 ℃ ^{1}H NMR (DMSO-d_6) δ 2.93 (s, 12H), 3.73 (s, 6H), 6.74-6.79 (m, 4H), 6.92 (s, 2H), 7.38-7.43 (m, 4H) IR (KBr) 3600-2800(br), 1616, 1533, 1496, 1458, 1442, 1387, 1360, 1230, 1202, 1169, 1059, 1035 cm^{-1}
I-1059	mp 122-123 ℃ ^{1}H NMR ($CDCl_3$) δ 1.74 (d, J = 0.6 Hz, 3H), 1.78 (d, J = 0.6 Hz, 3H), 2.26 (s, 3H), 2.29 (s, 3H), 3.77 (d, J = 6.9 Hz, 2H), 4.83 (br, 1H), 5.36-5.41 (m, 1H), 6.61-6.77 (m, 1H), 6.86-6.91 (m, 2H), 6.99-7.04 (m, 2H), 7.10 (s, 1H), 7.11 (s 1H), 7.21-7.26 (m, 2H) IR (KBr) 3600-2800(br), 1626, 1608, 1526, 1489, 1428, 1336, 1300, 1252, 1209, 1187 cm^{-1}
I-1060	mp foam ^{1}H NMR ($CDCl_3$) δ 1.74 (s, 3H), 1.77 (s, 3H), 2.27 (s, 3H), 2.31 (s, 3H), 3.76 (d, J = 6.6 Hz, 2H), 3.86 (s, 3H), 5.38-5.43 (m, 1H), 6.66 (d, J = 8.1 Hz, 1H), 6.80 (d, J = 1.8 Hz, 1H), 6.86-6.90 (m, 3H), 7.11 (s, 1H), 7.16 (s 1H), 7.23-7.26 (m, 2H) IR ($CHCl_3$) 3600-2800(br), 1730, 1611, 1525, 1489, 1455, 1256, 1171, 1137, 1100, 1036 cm^{-1}
I-1061	mp 191-193 ℃ ^{1}H NMR ($CDCl_3$) δ 3.01 (s, 6H), 3.79 (s, 3H), 3.80 (s, 3H), 6.79-6.83 (m, 2H), 6.92 (s, 1H), 6.98 (s 1H), 7.41-7.51 (m, 4H), 8.12 (br s, 1H), 8.26-8.32 (m, 1H) IR (KBr) 3600-2800(br), 1712, 1617, 1600, 1536, 1494, 1460, 1446, 1385, 1364, 1290, 1212, 1162, 1057, 1035 cm^{-1}

Table 210

I-1062	mp 240-245 ℃ ^{1}H NMR ($CDCl_3$) δ 3.82 (s, 6H), 6.95 (s, 2H), 7.41-7.49 (m, 4H), 8.13 (br s, 2H), 8.29-8.35 (m, 1H) IR (KBr) 3600-2800(br), 1725, 1598, 1544, 1492, 1381, 1294, 1215, 1197, 1165, 1109, 1055, 1033 cm^{-1}
I-1063	^{1}H NMR ($CDCl_3$) δ 1.99 (s, 6H), 2.17 (s, 3H), 3.21 (s, 3H), 5.20 (s, 2H), 6.95 - 7.11 (m, 4H), 7.23 (d, J = 8.7 Hz, 2H), 7.33 - 7.52 (m, 7H) IR (KBr) 1617, 1577, 1513, 1366, 1295, 1267, 1198, 1173, 1149, 1127, 1106cm^{-1}
I-1064	^{1}H NMR ($CDCl_3$) δ 1.99 (s, 6H), 2.17 (s, 3H), 3.21 (s, 3H), 5.18 (d, J = 3.9 Hz, 1H), 6.97 - 7.10 (m, 4H),7.23 (d, J = 8.7Hz, 2H), 7.37 (d, J = 8.7Hz, 2H) IR (KBr) 3442, 1620, 1597, 1519, 1472, 1356, 1279, 1232, 1174, 1147, 1103cm^{-1}
I-1065	^{1}H NMR ($CDCl_3$) δ 1.78 (s, 3H), 1.83 (s, 3H), 2.00 (s, 6H), 2.19 (s,3H), 3.22 (s, 3H), 4.65 (d, J = 6.3Hz, 2H), 5.52-5.62 (m, 1H), 6.96-7.13 (m, 4H), 7.24 (d, J = 8.7Hz, 2H), 7.38 (d, J= 8.7 Hz, 2H) IR (KBr)1617, 1576, 1514, 1466, 1359, 1297, 1268, 1204, 1151, 1002cm^{-1}
I-1066	^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.01 (s, 6H), 2.18 (s, 3H), 4.63 (d, J = 6.9 Hz, 2H), 4.75 (s, 1H), 5.52 - 5.60 (m, 1H), 6.82 - 7.11 (m, 8H) IR (KBr) 3433, 1606, 1517, 1466, 1297, 1269, 1221, 1128, 1107, 1004cm^{-1}
I-1067	^{1}H NMR ($CDCl_3$) δ :2.25 (s, 3H), 2.27 (s, 3H), 2.31 (s, 3H), 3.20 (s, 3H), 4.75 (s, 1 H), 6.83 (d, J= 8.4 Hz, 1H), 7.05 - 7.14 (m, 4H), 7.34 (d, J = 8.4 Hz, 2H), 7.42 (d, J = 8.4 Hz, 2H) IR (KBr)3494,3435, 1604, 1517, 1488, 1375, 1327, 1199, 1171, 1148, 1118 cm^{-1}
I-1068	^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.25 (s, 3H), 2.28 (s, 6H), 3.20 (s, 3H), 4.58 (d, J = 6.6 Hz, 2H), 5.50 - 5.58 (m, 1H), 6.88 (d, J = 9.0 Hz, 1H), 7.08 - 7.16 (m, 4H), 7.34 (.d, J = 8.7 Hz, 2H), 742 (d, J = 8.7 Hz, 2H) IR (KBr) 1604, 1513, 1486, 1367, 1238, 1176, 1153, 1131, 1002 cm^{-1}

Table 211

I-1069	^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.26 (s, 3H), 2.28 (s, 6H), 4.57 (d, J = 6.6Hz, 2H), 4.80 (s, 1H), 5.50 - 5.58 (m, 1H), 6.85 - 6.91 (m, 3H), 7.09 - 7.17 (m, 3H), 7.21 - 7.28 (m, 3H) IR (KBr) 3436, 1608, 1518, 1488, 1238, 1130, 1008 cm^{-1}
I-1070	^{1}H NMR ($CDCl_3$) δ : 2.26 (s, 3H), 2.30 (s, 3H), 3.00 (s, 6H), 5.19 (s, 2H), 6.80 (.d, J = 8.7 Hz, 2H), 7.02 - 7.16 (m, 5H), 7.26 (d, J = 8.7 Hz, 2H), 7.33 - 7.51 (m, 5H) IR (KBr) 1608, 1527, 1490, 1355, 1297, 1270, 1262, 1231, 1121, 1022 cm^{-1}
I-1071	^{1}H NMR ($CDCl_3$) δ 2.26 (s, 3H), 2.30 (s, 3H), 3.01 (s, 6H), 5.09 (s, 1H), 6.80 (d, J = 8.4 Hz, 2H), 7.01 - 7.15(m, 5H), 7.27 (.d, J = 8.4Hz, 2H) IR (KBr) 3432, 1613, 1590, 1526, 1489, 1307, 1283, 1241, 1138, 1111 cm^{-1}
I-1072	^{1}H NMR ($CDCl_3$) δ :1.77 (s, 3H), 1.81 (s, 3H), 2.27 (s, 3H), 2.30 (s, 3H), 3.00 (s, 6H), 4.63 (d, J=6.6 Hz, 2H), 5.51-5.59 (m, 1H), 6.80 (d, J=8.4 Hz, 2H), 6.97-7.16 (m, 5H), 7.27 (d, J=8.14 Hz, 2H) IR (KBr) 1611, 1528, 1489, 1353, 1297, 1266, 1228, 1122, 1011 cm^{-1}
I-1073	mp 182-184 ℃ ^{1}H NMR ($CDCl_3$) δ 1.48 (s, 3H), 1.67 (s, 3H), 1.91 (s, 3H), 3.46 (s, 3H), 3.76 (s, 3H), 3.84 (s, 3H), 3.94-4.03 (m, 1H), 4.05-4.59 (m, 1H), 5.23-5.32 (m, 1H), 5.74 (br s, 1H), 6.05 (s, 1H), 6.48 (s, 1H), 6.93-6.99 (m, 2H), 7.04-7.10 (m, 3H), 7.51-7.56 (m, 3H) IR (KBr) 3400, 2934, 1625, 1523, 1396, 1227, 1119, 1077, 1036, 826, 589 cm^{-1}
I-1074	mp 153-154 ℃ ^{1}H NMR ($CDCl_3$) δ 1.74 (s, 3H), 1.78 (s, 3H), 2.30 (s, 3H), 2.31 (s, 3H), 3.75 (d, J = 6.6 Hz, 2H), 3.86 (s, 3H), 3.87 (s, 3H), 5.37-5.45 (m, 1H), 6.66 (d, J = 8.4 Hz, 1H), 6.74-6.83 (m, 5H), 6.89 (dd, J = 1.8, 8.1 Hz, 1H), 7.14 (s, 1H), 7.16 (s, 1H) IR (KBr) 3408, 3389, 3294, 3210, 2919, 2835, 1528, 1495, 1275, 1208, 1032, 856, 826 cm^{-1}

Table 212

I-1075	mp 168-171 ℃ ^{1}H NMR ($CDCl_3$) δ 1.74 (s, 6H), 1.77 (s, 6H), 2.31 (s, 6H), 3.75 (d, J = 6.9 Hz, 4H), 3.86 (s, 6H), 5.37-5.45 (m, 2H), 6.66 (d, J = 8.1 Hz, 2H), 6.80 (d, J = 1.8 Hz, 2H), 6.89 (dd, J = 1.8, 8.1 Hz, 2H), 7.16 (s, 1H) IR (KBr) 3423, 2968, 2927, 2912, 2849, 1609, 1526, 1498, 1454, 1261, 1209, 1135, 1030, 855, 803 cm^{-1}
I-1076	mp79-80 ℃ ^{1}H NMR ($CDCl_3$) δ -2.54 (s, 3H), 3.19 (s, 3H), 3.85 (s, 3H), 5.17 (s, 2H), 5.71 (brs, 1H), 6.93 (d, J = 8.1 Hz, 1H), 7.01-7.07 (m, 3H), 7.24-7.26 (m, 2H), 7.37-7.43 (m, 7H), 7.66 (d, J = 8.7 Hz, 2H) IR(KBr) 3466, 3029, 2939, 2937, 1610, 1520, 1482, 1365, 1246, 1201, 1175, 1150, 1073, 969, 872, 839, 804 cm^{-1}
I-1077	mp151-152 ℃ ^{1}H NMR ($CDCl_3$) δ 4.00 (s, 3H), 4.91 (brs, 1H), 5.24 (s, 2H), 6.89 (d, J = 8.2 Hz, 2H), 7.00 (d, J = 8.0 Hz, 1H), 7.12-7.47 (m, 10H), 7.71 (d, J = 7.4 Hz, 1H), 7.89 (s, 1H) IR(KBr) 3422, 1612, 1526, 1491, 1454, 1329, 1287, 1269, 1248, 1171, 1136, 1103, 1019, 827 cm^{-1}
I-1078	mp173-174 ℃ ^{1}H NMR ($CDCl_3$) δ 3.13 (s, 3H), 4.92 (brs, 1H), 5.19 (s, 2H), 6.88 (d, J = 8.6 Hz, 2H), 7.15-7.26 (m, 4H), 7.35-7.59 (m, 7H), 7.69 (d, J = 9.4 Hz, 1H), 7.86 (s, 1H) IR(KBr) 3426, 1613, 1527, 1489, 1435, 1361, 1330, 1294, 1243, 1164, 1118, 1070, 978, 821 cm^{-1}
I-1079	mp168-169 ℃ ^{1}H NMR ($CDCl_3$) δ 3.20 (s, 3H), 3.99 (s, 3H), 5.22 (s, 2H), 6.89 (d, J = 8.8 Hz, 1H), 7.11-7.15 (m, 2H), 7.31-7.49 (m, 10H), 7.73 (d, J = 7.4 Hz, 1H), 7.90 (s, 1H) IR(KBr) 3434, 1603, 1524, 1488, 1369, 1335, 1244, 1178, 1143, 1119, 1006, 871 cm^{-1}

Table 213

I-1080	mp68-69 ℃ ^{1}H NMR ($CDCl_3$) δ 3.13 (s, 3H), 3.19 (s, 3H), 5.19 (s, 2H), 7.18 (d, J = 8.6 Hz, 2H), 7.26-7.59 (m, 11H), 7.73 (d, J = 9.2 Hz, 1H), 7.89 (s, 1H) IR(KBr) 3431, 3034, 2938, 1613, 1524, 1487, 1367, 1330, 1293, 1242, 1175, 1151, 1118, 970, 872, 828 cm^{-1}
I-1081	mp74-76 ℃ ^{1}H NMR ($CDCl_3$) δ 1.78 (s, 3H), 1.84 (s, 3H), 3.51 (s, 3H), 4.64 (d, J = 5.6 Hz, 2H), 5.08 (brs, 2H), 5.49-5.54 (m, 1H), 5.75 (brs, 1H), 5.85 (brs, 1H), 6.14 (s, 1H), 6.89-7.12 (m, 5H), 7.53 (d, J = 8.4 Hz, 2H) IR(KBr) 3444, 2934, 1612, 1523, 1485, 1403, 1360, 1251, 1172, 1006, 971, 837, 527 cm^{-1}
I-1082	mp71-72 ℃ ^{1}H NMR ($CDCl_3$) δ 2.46 (s, 3H), 3.20 (s, 3H), 3.86 (s, 3H), 3.91 (s, 3H), 5.21 (s, 2H), 6.87-7.03 (m, 3H), 7.11 (s, 1H), 7.24-7.41 (m, 8H), 7.67 (d, J = 8.8 Hz, 2H) IR(KBr) 3434, 3028, 2936, 1609, 1521, 1482, 1365, 1239, 1176, 1074, 969, 869, 804 cm^{-1}
I-1083	mp73-74 ℃ ^{1}H NMR ($CDCl_3$) δ -2.66 (s, 3H), 3.13 (s, 3H), 3.20 (s, 3H), 3.86 (s, 3H), 5.19 (s, 2H), 7.08 (d, J = 1.6 Hz, 1H), 7.16 (d, J = 8.4 Hz, 1H), 7.21-7.28 (m, 2H), 7.37-7.42 (m, 8H), 7.66 (d, J = 8.4 Hz, 2H) IR(KBr) 3432, 3031, 2938, 1610, 1523, 1480, 1365, 1176, 1151, 1074, 970, 875, 807, 524 cm^{-1}
I-1084	mp110-111 ℃ ^{1}H NMR ($CDCl_3$) δ 1.78 (s, 3H), 1.81 (s, 3H), 3.21 (s, 3H), 3.98 (s, 3H), 4.67 (d, J = 6.6 Hz, 2H), 5.57 (t, J = 6.8 Hz, 1H), 7.01 (d, J = 8.0 Hz, 1H), 7.15-7.21 (m, 2H), 7.28-7.45 (m, 4H), 7.76 (d, J = 7.6 Hz, 1H), 7.93 (s, 1H), 8.03 (s, 1H) IR(KBr) 3434, 3010, 2931, 1524, 1488, 1368, 1336, 1247, 1173, 1149, 1121, 1007, 871, 562 cm^{-1}

Table 214

I-1085	mp147-148 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.79 (s, 3H), 3.96 (s, 3H), 4.65 (d, J = 6.3 Hz, 2H), 4.91 (brs, 1H), 5.55 (t, J = 5.7 Hz, 1H), 6.88 (d, J = 8.1 Hz, 2H), 6.99 (d, J = 8.4 Hz, 1H), 7.12-7.26 (m, 4H), 7.36 (d, J = 8.1 Hz, 1H), 7.89 (s, 1H) IR(KBr) 3450, 2938, 1612, 1524, 1490, 1436, 1340, 1264, 1230, 1212, 1139, 1123, 984, 835 cm^{-1}
I-1086	mp134-135 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 4.84 (brs, 1H), 5.52 (t, J = 7.2 Hz, 1H), 5.77 (s, 1H), 6.87 (d, J = 8.7 Hz, 2H), 6.96 (d, J = 8.4 Hz, 1H), 7.12 (dd, J = 2.4, 8.7 Hz, 1H), 7.35 (d, J = 8.1 Hz, 1H), 7.70 (d, J = 8.4 Hz, 1H), 7.89 (s, 1H) IR(KBr) 3367, 1610, 1489, 1442, 1333, 1265, 1193, 1165, 1124, 834, 805 cm^{-1}
I-1087	mp156-157 ℃ ^{1}H NMR ($CDCl_3$) δ 1.78 (s, 3H), 1.81 (s, 3H), 3.82 (s, 3H), 3.89 (s, 3H), 4.65 (d, J = 6.2 Hz, 2H), 4.95 (brs, 1H), 5.22 (brs, 1H), 5.58 (t, J = 6.0 Hz, 1H), 6.73 (s, 1H), 6.87-7.00 (m, 6H), 7.53 (d, J = 8.4 Hz, 2H) IR(KBr) 3394, 2934, 1610, 1526, 1499, 1455, 1402, 1240, 1221, 1139, 1099, 894, 815 cm^{-1}
I-1088	mp69-70 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.83 (s, 3H), 3.80 (s, 3H), 4.63 (d, J = 7.0 Hz, 2H), 4.93 (brs, 1H), 5.22 (brs, 1H), 5.52 (t, J = 7.0 Hz, 1H), 5.78 (brs, 1H), 6.70 (d, J = 1.6 Hz, 1H), 6.83-7.01 (m, 6H), 7.51 (d, J = 8.8 Hz, 2H) IR(KBr) 3411, 2933, 1611, 1526, 1492, 1453, 1263, 1242, 1220, 1190, 1172, 1096, 907, 822 cm^{-1}
I-1089	mp 160-161 ℃ ^{1}H NMR ($CDCl_3$) δ 1.39 (d, J = 6.0 Hz, 6H), 2.40 (s, 3H), 3.21 (s, 3H), 3.55 (s, 3H), 3.77 (s, 3H), 4.55 (m, 1H), 5.20 (s, 2H), 6.83 (s, 1H), 6.93 (dd, J = 1.8, 8.1 Hz, 1H), 7.01 (d, J = 8.1 Hz, 1H), 7.01 (d, J = 1.8 Hz, 1H), 7.28-7.48 (m, 7H), 7.66-7.72 (m, 2H) IR (KBr) 1515, 1480, 1463, 1391, 1363, 1239, 1192, 1176, 1149, 1082, 1018, 962, 873, 800 cm^{-1}

Table 215

I-1090	mp 154-155 ℃ ^{1}H NMR ($CDCl_3$) δ 2.59 (s, 3H), 3.21 (s, 3H), 3.54 (s, 3H), 3.77 (s, 3H), 5.23 (s, 2H), 6.84 (s, 1H), 7.06 (d, J = 8.4 Hz, 1H), 7.24-7.50 (m, 9H), 7.65-7.71 (m, 2H) IR (KBr) 1513, 1479, 1365, 1267, 1232, 1178, 1150, 1079, 971, 959, 875, 797 cm^{-1}
I-1091	mp 137-138 ℃ ^{1}H NMR ($CDCl_3$) δ 1.38 (d, J = 6.3 Hz, 6H), 3.46 (s, 3H), 3.74 (s, 3H), 4.54 (m, 1H), 4.96 (s, 1H), 5.17 (s, 2H), 5.92 (s, 1H), 6.45 (s, 1H), 6.89-6.94 (m, 2H), 7.00-7.11 (m, 3H), 7.27-7.41 (m, 3H), 7.45-7.56 (m, 4H) IR (KBr) 3443, 3356, 1611, 1521, 1488, 1458, 1393, 1269, 1236, 1138, 1112, 1074, 1013, 830, 743 cm^{-1}
I-1092	mp 75-76 ℃ ^{1}H NMR ($CDCl_3$) δ 1.37 (d, J = 5.8 Hz, 6H), 1.75 (s, 3H), 1.79 (s, 3H), 2.53 (s, 3H), 3.21 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 4.51 (m, 1H), 4.61 (d, J = 6.6 Hz, 2H), 5.52 (m, 1H), 6.84 (s, 1H), 6.96-7.02 (m, 3H), 7.34-7.42 (m, 2H), 7.65-7.74 (m, 2H) IR (KBr) 1516, 1480, 1449, 1360, 1332, 1240, 1199, 1177, 1152, 1083, 964, 873, 797 cm^{-1}
I-1093	mp 119-120 ℃ ^{1}H NMR ($CDCl_3$) δ 1.37 (d, J = 6.3 Hz, 6H), 1.73 (s, 3H), 1.77 (d, J = 0.9 Hz, 3H), 3.46 (s, 3H), 3.75 (s, 3H), 4.51 (m, 1H), 4.61 (d, J = 6.6 Hz, 2H), 5.14 (s, 1H), 5.54 (m, 1H), 5.93 (s, 1H), 6.46 (s, 1H), 6.89-6.95 (m, 2H), 6.98 (d, J = 8.1 Hz, 1H), 7.01-7.07 (m, 2H), 7.50-7.56 (m, 2H) IR (KBr) 3426, 1610, 1522, 1488, 1455, 1402, 1267, 1237, 1174, 1135, 1112, 1079, 1020 cm^{-1}
I-1094	mp 150-151 ℃ ^{1}H NMR ($CDCl_3$) δ 3.44 (s, 3H), 3.75 (s, 3H), 4.90 (s, 1H), 5.20 (s, 2H), 5.99 (s, 1H), 6.44 (s, 1H), 6.88-6.95 (m, 2H), 7.04 (d, J = 8.4 Hz, 1H), 7.29-7.44 (m, 4H), 7.47-7.56 (m, 5H) IR (KBr) 3410, 1610, 1519, 1484, 1463, 1455, 1410, 1382, 1359, 1285, 1264, 1229, 1118, 1074, 1060, 1014, 995 cm^{-1}
I-1095	^{1}H NMR ($CDCl_3$) δ 0.96 (s, 3H), 0.98 (s, 3H), 1.53-1.82 (m, 3H), 2.99 (s, 6H), 3.20 (t, J = 7.2 Hz, 2H), 3.78 (s, 3H), 3.79 (s, 3H), 3.87 (br, 1H), 6.71-6.83 (m, 3H), 6.92 (s, 1H), 6.94 (s 1H), 7.23-7.31 (m, 2H), 7.47-7.52 (m, 2H)

Table 216

I-1096	mp 87-89 ℃ ^{1}H NMR ($CDCl_3$) δ 1.70 (s, 3H), 1.75 (s, 3H), 2.82 (s, 3H), 3.00 (s, 3H), 3.74-3.80 (m, 2H), 3.78 (s, 3H), 3.80 (s, 3H), 5.29-5.34 (m, 1H), 6.79-6.83 (m, 2H), 6.92-6.97 (m, 3H), 7.25-7.34 (m, 2H), 7.47-7.52 (m, 2H) IR (KBr) 3600-2800(br), 1613, 1531, 1495, 1460, 1448, 1380, 1359, 1253, 1210, 1057, 1036 cm^{-1}
I-1097	mp 167-169 ℃ ^{1}H NMR ($CDCl_3$) δ 2.92 (s, 3H), 3.00 (s, 6H), 3.78 (s, 3H), 3.79 (s, 3H), 4.02 (br, 1H), 6.71-6.83 (m, 3H), 6.92 (s, 1H), 6.95 (s, 1H), 7.25-7.32 (m, 2H), 7.47-7.52 (m, 2H) IR (KBr) 3600-2800(br), 1625, 1613, 1533, 1497, 1462, 1445, 1381, 1358, 1328, 1262, 1205, 1163, 1051, 1031 cm^{-1}
I-1098	mp 114-115 ℃ ^{1}H NMR ($CDCl_3$) δ 2.27 (s, 6H), 2.54 (s, 3H), 5.19 (s, 2H), 7.00-7.16 (m, 5H), 7.26-7.51 (m, 9H) IR (KBr) 1519, 1501, 1483, 1454, 1310, 1295, 1263, 1232, 1123, 998, 744 cm^{-1}
I-1099	mp 68-69 ℃ ^{1}H NMR ($CDCl_3$) δ 1.62 (br s, 1H), 1.77 (s, 3H), 1.82 (s, 3H), 2.27 (s, 3H), 2.28 (s, 3H), 4.64 (d, J = 6.8 Hz, 2H), 4.76 (s, 2H), 5.56 (m, 1H), 7.00-7.16 (m, 5H), 7.33-7.48 (m, 4H) IR (KBr) 3433, 1522, 1490, 1384, 1311, 1296, 1266, 1232, 1194, 1122, 1025, 1013, 992, 841, 818 cm^{-1}
I-1100	mp 68-69 ℃ ^{1}H NMR ($CDCl_3$) δ 1.62 (br s, 1H), 1.77 (s, 3H), 1.82 (s, 3H), 2.27 (s, 3H), 2.28 (s, 3H), 4.64 (d, J = 6.8 Hz, 2H), 4.76 (s, 2H), 5.56 (m, 1H), 7.00-7.16 (m, 5H), 7.33-7.48 (m, 4H) IR (KBr) 3433, 1522, 1490, 1384, 1311, 1296, 1266, 1232, 1194, 1122, 1025, 1013, 992, 841, 818 cm^{-1}

Table 217

I-1101	mp 171 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.81 (d, J = 0.9 Hz, 3H), 2.68 (s, 3H), 3.21 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 4.65 (d, J = 6.6 Hz, 2H), 5.53 (m, 1H), 6.84 (s, 1H), 7.03 (d, J = 8.7 Hz, 1H), 7.29 (dd, J = 2.1, 8.7 Hz, 1H), 7.36-7.41 (m, 2H), 7.46 (d, J = 2.1 Hz, 1H), 7.66-7.72 (m, 2H) IR (KBr) 1510, 1477, 1376, 1358, 1349, 1294, 1237, 1196, 1173, 1145, 1077, 1004, 958, 861, 801 cm^{-1}
I-1102	mp 168-169 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (d, J = 0.3 Hz, 3H), 1.80 (d, J = 0.9 Hz, 3H), 3.44 (s, 3H), 3.75 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 4.97 (s, 1H), 5.55 (m, 1H), 6.00 (s, 1H), 6.45 (s, 1H), 6.89-6.95 (m, 2H), 7.01 (d, J = 8.4 Hz, 1H), 7.33 (dd, J = 2.1, 8.4 Hz, 1H), 7.51 (d, J = 2.1 Hz, 1H), 7.51-7.56 (m, 2H) IR (KBr) 3396, 1613, 1521, 1485, 1467, 1440, 1408, 1384, 1357, 1286, 1264, 1229, 1116, 1076, 1056, 993, 834 cm^{-1}
I-1103	mp 176-177 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.80 (s, 3H), 2.09 (s, 3H), 2.16 (s, 3H), 3.87 (s, 3H), 4.65 (d, J =7.2 Hz, 2H), 4.78 (br s, 1H), 5.06 (s, 1H), 5.40-5.60 (m.1H), 6.76 (s, 1H), 6.82-6.91 (m, 4H), 7.02 (d, J =7.8 Hz, 1H), 7.22-7.27 (m, 2H) IR ($CHCl_3$) 3597, 3533, 3026, 3010, 2921, 1731, 1612, 1520, 1488, 1240, 1172 cm^{-1}
I-1104	mp 185-186 ℃ ^{1}H NMR ($CDCl_3$) δ 1.78 (s, 3H), 1.82 (s, 3H), 2.06 (s, 3H), 2.15 (s, 3H), 4.66 (d, J =6.9 Hz, 2H), 4.71 (s, 1H), 4.89 (s, 1H), 5.53-5.58 (m, 1H), 6.75 (s, 1H), 6.86-6.91 (m, 2H), 6.90-7.00 (m, 3H), 7.21-7.26 (m, 2H) IR ($CHCl_3$) 3691, 3598, 3546, 3068, 2922, 1674, 1613, 1520, 1488, 1298, 1262, 1165 cm^{-1}
I-1105	mp 143-144 ℃ ^{1}H NMR ($CDCl_3$) δ 2.48 (s, 3H), 3.21 (s, 3H), 3.52 (s, 3H), 3.67 (d, J = 1.2 Hz, 3H), 3.92 (s, 3H), 5.23 (s, 2H), 6.92-7.02 (m, 3H), 7.31-7.48 (m, 7H), 7.60 (dd, J = 8.7, 1.5 Hz, 2H) IR (KBr) 1519, 1470, 1370, 1256, 1173, 1152, 1029, 872 cm^{-1}

Table 218

I-1106	mp 128-130 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.80 (s, 3H), 2.59 (s, 3H), 3.21 (s, 3H), 3.53 (s, 3H), 3.67 (d, J = 0.9 Hz, 3H), 3.90 (s, 3H), 4.64 (d, J = 6.9 Hz, 2H), 5.55 (t, J = 6.9 Hz, 1H), 6.97-7.00 (m, 3H), 7.41 (d, J = 8.8 Hz, 2H), 7.60 (dd, J = 8.8, 1.1 Hz, 2H) IR (KBr) 1519, 1361, 1258, 1175, 1148, 1041, 978, 874 cm^{-1}
I-117	mp 168-170 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.79 (s, 3H), 3.43 (s, 3H), 3.63 (d, J = 0.9 Hz, 3H), 3.89 (s, 3H), 4.65 (d, J = 6.8 Hz, 2H), 5.01 (s, 1H), 5.57 (t, J = 6.8 Hz, 1H), 5.65 (s, 1H), 6.90-7.06 (m, 5H), 7.43 (dd, J = 8.7, 1.5 Hz, 2H) IR (KBr) 3433, 1523, 1464, 1397, 1253, 1216, 1038, 977, 838, 814 cm^{-1}
I-1108	mp 127-128 ℃ ^{1}H NMR ($CDCl_3$) δ 2.25 (s, 3H), 2.27 (s, 3H), 3.20 (s, 3H), 5.22 (s, 2H), 7.02 (d, J = 8.4 Hz, 1H), 7.10 (s, 1H), 7.11 (s, 1H), 7.18 (dd, J = 2.1, 8.4 Hz, 1H), 7.31-7.54 (m, 10H) IR (KBr) 1513, 1484, 1369, 1284, 1243, 1175, 1150, 1061, 984, 968, 868, 847, 791, 718 cm^{-1}
I-1109	mp 161-162 ℃ ^{1}H NMR ($CDCl_3$) δ 2.26 (s, 3H), 2.28 (s, 3H), 5.16 (s, 2H), 5.19 (s, 2H), 5.70 (br s, 1H), 6.82 (dd, J = 2.1, 8.4 Hz, 1H), 6.96-7.16 (m, 7H), 7.31-7.51 (m, 10H) IR (KBr) 3449, 1521, 1492, 1470, 1455, 1394, 1294, 1279, 1247, 1232, 1199, 1185, 1129, 1013, 740, 695 cm^{-1}
I-110	mp 133-134 ℃ ^{1}H NMR ($CDCl_3$) δ 2.26 (s, 6H), 4.80 (br s, 1H), 5.21 (s, 2H), 6.85-6.93 (m, 2H), 7.02 (d, J = 8.4 Hz, 1H), 7.09 (s, 1H), 7.17 (s, 1H), 7.15-7.52 (m, 9H) IR (KBr) 3350, 1601, 1519, 1485, 1453, 1387, 1289, 1255, 1169, 1060, 839, 813, 731 cm^{-1}

Table 219

I-1111	mp 83-84 ℃ ^{1}H NMR ($CDCl_3$) δ 1.78 (d, J = 0.3 Hz, 3H), 1.82 (d, J = 0.9 Hz, 3H), 2.26 (s, 3H), 2.27 (s, 3H), 3.20 (s, 3H), 4.65 (d, J = 6.6 Hz, 2H), 5.55 (m, 1H), 6.99 (d, J = 8.4 Hz, 1H), 7.11 (s, 1H), 7.12 (s, 1H), 7.19 (dd, J = 2.1, 8.4 Hz, 1H), 7.38 (d, J = 2.1 Hz, 1H), 7.32-7.43 (m, 4H) IR (KBr) 1514, 1485, 1364, 1286, 1253, 1197, 1178, 1156, 1057, 976, 882, 851 cm^{-1}
I-1112	mp 86-87 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (d, J = 0.6 Hz, 3H), 1.82 (d, J = 0.9 Hz, 3H), 2.27 (s, 6H), 4.65 (d, J = 6.6 Hz, 2H), 5.00 (s, 1H), 5.55 (m, 1H), 6.86-6.92 (m, 2H), 6.98 (d, J = 8.4 Hz, 1H), 7.10 (s, 1H), 7.11 (s, 1H), 7.20 (dd, J = 2.1, 8.4 Hz, 1H), 7.22-7.26 (m, 2H), 7.38 (d, J = 2.1 Hz, 1H) IR (KBr) 3339, 1608, 1530, 1492, 1429, 1362, 1288, 1258, 1232, 1213, 1189, 1112, 889, 783 cm^{-1}
I-1113	amorphous ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 3.32 (s, 6H), 3.44 (s, 3H), 3.74 (s, 3H), 5.23 (s, 2H), 7.02 (s, 1H), 7.14-7.20 (m, 2H), 7.28 (d, J = 8.7 Hz, 1H), 7.32-7.55 (m, 7H), 7.72 (d, J = 8.4 Hz, 2H), 9.22 (s, 1H), IR (KBr) 3382, 1684, 1518, 1469, 1365, 1237, 1150, 1017, 972, 872, 815 cm^{-1}
I-1114	mp 173-175 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.81 (s, 3H), 1.97 (s, 3H), 3.19 (s, 6H), 3.21 (s, 3H), 3.37 (s, 3H), 3.75 (s, 3H), 4.62 (d, J = 6.9 Hz, 2H), 5.50 (t, J = 6.9 Hz, 1H), 6.85 (m, 2H), 7.06 (d, J = 8.4 Hz, 1H), 7.25 (m, 1H), 7.37 (br s, 1H), 7.66 (d, J = 8.7 Hz, 2H) IR (KBr) 3421, 1518, 1470, 1366, 115, 1107, 970, 814 cm^{-1}

Table 220

I-1115	mp 96-98 ℃ ^{1}H NMR (DMSO-d_6) δ 1.72 (s, 3H), 1.77 (s, 3H), 3.27 (s, 3H), 3.59 (s, 3H), 4.21 (s, 2H), 4.55 (d, J = 6.3 Hz, 2H), 5.50 (t, J = 6.3 Hz, 1H), 6.17 (s, 1H), 6.59 (dd, J = 8.1, 1.8 Hz, 1H), 6.66 (d, J = 1.8 Hz, 1H), 6.82 (d, J = 8.7 Hz, 2H), 6.97 (d, J = 8.1 Hz, 1H), 7.42 (d, J = 8.7 Hz, 2H), 8.89 (br s, 1H), 9.45 (br s, 1H) IR (KBr) 3431, 3396, 3319, 1611, 1521, 1486, 1264, 1172, 1111, 987, 826 cm^{-1}
I-1116	mp 186-188 ℃ ^{1}H NMR (DMSO-d_6) δ 1.72 (s, 3H), 1.76 (s, 6H), 3.28 (s, 3H), 3.68 (s, 3H), 4.54 (d, J = 6.6 Hz, 2H), 5.48 (t, J = 6.6 Hz, 1H), 6.53-6.58 (m, 1H), 6.65 (d, J = 1.8 Hz, 1H), 6.83-6.89 (m, 4H), 7.43 (d, J = 8.4 Hz, 2H), 8.73 (br s, 1H), 8.96 (br s, 1H), 9.63 (br s, 1H) IR (KBr) 3429, 1652, 1611, 1519, 1474, 1250, 1080, 1018, 981, 836 cm^{-1}
I-1117	mp 210-213 ℃ ^{1}H NMR ($CDCl_3$) δ 3.48 (s, 3H), 3.77 (s, 3H), 5.16 (s, 2H), 5.71 (s, 1H), 5.85 (s, 1H), 6.48 (s, 1H), 6.95 (dd, J = 8.4, 2.1 Hz, 1H), 7.04 (d, J = 8.4 Hz, 1H), 7.07 (d, J = 2.1 Hz, 1H), 7.40-7.48 (m, 5H), 7.83 (d, J = 9.0 Hz, 2H), 8.32 (d, J = 9.0 Hz, 2H) IR (KBr) 3499, 1511, 1343, 1284, 1247, 1195, 1109, 1070, 1013 cm^{-1}
I-1118	mp 156-158 ℃ ^{1}H NMR ($CDCl_3$) δ 2.67 (s, 3H), 3.14 (s, 3H), 3.56 (s, 3H), 3.80 (s, 3H), 5.20 (s, 2H), 6.87 (s, 1H), 7.16 (d, J = 8.7 Hz, 1H), 7.32-7.48 (m, 7H), 7.82 (d, J = 9.2 Hz, 2H), 8.32 (d, J = 9.2 Hz, 2H) IR (KBr) 1518, 1479, 1350, 1177, 1119, 1079, 947, 816 cm^{-1}
I-1119	mp 173-175 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.71 (s, 3H), 3.24 (s, 3H), 3.57 (s, 3H), 3.80 (s, 3H), 4.64 (d, J = 6.7 Hz, 2H), 5.50 (t, J = 6.7 Hz, 1H), 6.87 (s, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.35 (d, J = 8.4, 2.1 Hz, 1H), 7.39 (d, J = 2.0 Hz, 1H), 7.82 (d, J = 9.0 Hz, 2H), 8.32 (d, J = 9.0 Hz, 2H) IR (KBr) 1519, 1479, 1360, 1178, 1075, 946, 850, 799 cm^{-1}

Table 221

I-1120	mp 191-193 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 3.48 (s, 3H), 3.77 (s, 3H), 4.63 (d, J = 6.6 Hz, 2H), 5.53 (t, J = 6.6 Hz, 1H), 5.72 (s, 1H), 5.83 (s, 1H), 6.48 (s, 1H), 6.93 (dd, J = 8.1, 1.8 Hz, 1H), 6.98 (d, J = 8.1 Hz, 1H), 7.04 (d, J = 1.8 Hz, 1H), 7.83 (d, J = 9.0 Hz, 2H), 8.32 (d, J = 9.0 Hz, 2H) IR (KBr) 3492, 1588, 1511, 1482, 1345, 1283, 1244, 1116, 1069, 1010 cm^{-1}
I-1121	mp 135-138 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 3.61 (s, 3H), 3.67 (s, 3H), 3.73 (s, 3H), 4.62 (d, J = 6.9 Hz, 2H), 5.00 (br. s, 1H), 5.50-5.57 (m, 1H), 5.69 (br. s, 1H), 6.65 (s, 1H), 6.86-6.96 (m, 4H), 7.00 (d, J = 1.8 Hz, 1H), 7.48 (d, J = 8.4 Hz, 2H) IR (KBr) 3428, 2938, 1680, 1613, 1594, 1520, 1479, 1460, 1393, 1260, 1226, 1104, 1081, 993, 834 cm^{-1}
I-1122	mp 140-142 ℃ ^{1}H NMR ($CDCl_3$) δ 1.78 (s, 3H), 1.82 (s, 3H), 2.34 (s, 3H), 4.65-4.67 (d, J = 6.9 Hz, 2H), 5.55 (m, 1H), 6.41-6.78 (dt, J F-H = 54.6, 3.3 Hz, 2H), 7.05-7.25 (m, 5H), 7.26-7.45 (m, 2H), 7.75 (m, 2H) IR ($CHCl_3$) 1752, 1523, 1493, 1435, 1385, 1301, 1272, 1169, 1132, 1070, 1037, 916, 889 cm^{-1}
I-1123	mp 178-180 ℃ ^{1}H NMR ($CDCl_3$) δ 1.75 (s, 3H), 1.78-1.79 (d, J = 0.6 Hz, 3H), 2.13 (s, 3H), 3.50 (s, 3H), 3.87 (s, 3H), 4.63-4.65 (d, J = 6.6 Hz, 2H), 5.00 (br, 1H), 5.57 (m, 1H), 5.75 (s, 1H), 6.79 (s, 1H), 6.84-7.00 (m, 5H), 7.50-7.53 (m, 2H) IR ($CHCl_3$) 3596, 3528, 2937, 1612, 1584, 1522, 1489, 1454, 1400, 1259, 1173, 1139, 1102, 1009, 930, 865, 835 cm^{-1}
I-1124	mp 173-174 ℃ ^{1}H NMR ($CDCl_3$) δ 3.03 (s, 6H), 3.54 (s, 3H), 3.76 (s, 3H), 3.91 (s, 3H), 5.22 (s, 2H), 6.80-6.99 (m, 6H), 7.28-7.58 (m, 7H) IR ($CHCl_3$) 2938, 1731, 1609, 1527, 1485, 1442, 1394, 1365, 1174, 1141, 1082, 1037, 1013, 961, 936, 863 cm^{-1}

Table 222

I-1125	mp 103-106 ℃ ^{1}H NMR ($CDCl_3$) δ 1.78 (s, 3H), 1.82-1.83 (d, J = 0.9 Hz, 3H), 4.65-4.67 (d, J = 6.9 Hz, 2H), 5.55 (m, 1H), 6.41-6.78 (td, J F-H = 54.9, 2.7 Hz, 2H), 6.94-7.31 (m, 7H), 7.73 (m, 2H) IR ($CHCl_3$) 3592, 1612, 1525, 1495, 1385, 1301, 1263, 1187, 1173, 1132, 1069, 1036, 917, 889, 838 cm^{-1}
I-1126	mp 153-155 ℃ ^{1}H NMR ($CDCl_3$) δ 1.75 (s, 3H), 1.78-1.79 (d, J = 0.9 Hz, 3H), 2.58 (s, 3H), 3.03 (s, 6H), 3.55 (s, 3H), 3.77 (s, 3H), 3.88 (s, 3H), 4.61-4.64 (d, J = 6.9 Hz, 2H), 5.54 (m, 1H), 6.80-6.97 (m, 6H), 7.54-7.57 (d, J = 8.7 Hz, 2H) IR ($CHCl_3$) 2938, 1609, 1527, 1485, 1464, 1442, 1392, 1365, 1174, 1140, 1082, 1038, 1012, 961, 935 cm^{-1}
I-1127	mp 160-161 ℃ ^{1}H NMR ($CDCl_3$) δ 2.12 (s, 3H), 3.49 (s, 3H), 3.89 (s, 3H), 4.89 (br, 1H), 5.21 (s, 2H), 5.76 (s, 1H), 6.79-6.92 (m, 5H), 7.00 (d, J = 8.4 Hz, 1H), 7.31-7.53 (m, 7H) IR ($CHCl_3$) 3594, 3517, 2937, 1731, 1612, 1589, 1522, 1489, 1455, 1400, 1327, 1259, 1240, 1173, 1139, 1102, 1011, 930, 865, 835 cm^{-1}
I-1128	mp 149-150 ℃ ^{1}H NMR ($CDCl_3$) δ 1.74-1.75 (d, J = 0.9 Hz, 3H), 1.78-1.79 (d, J = 0.9 Hz, 3H), 3.03 (s, 1H), 3.49 (s, 6H), 3.75 (s, 3H), 3.88 s, 3H), 4.62-4.64 (d, J = 6.6 Hz, 2H), 5.57 (m, 1H), 5.95 (s, 1H), 6.49 (s, 1H), 6.81-6.84 (m, 2H), 6.95-7.03 (m, 3H), 7.55-7.58 (m, 2H) IR ($CHCl_3$) 3509, 2937, 1675, 1610, 1584, 1528, 1492, 1464, 1397, 1362, 1323, 1197, 1175, 1140, 1117, 1078, 1038, 1011, 929, 835 cm^{-1}
I-1129	mp 163-165 ℃ ^{1}H NMR ($CDCl_3$) δ 2.15 (s, 3H), 2.47 (s, 3H), 3.20 (s, 3H), 3.55 (s, 3H), 3.90 (s, 3H), 5.22 (s, 2H), 6.80 (dd, J = 8.4, 2.1 Hz, 1H), 6.88 (d, J = 2.1 Hz, 1H), 7.00 (d, J = 8.4 Hz, 1H), 7.17 (s, 1H), 7.35-7.47 (m, 7H), 7.66-7.69 (m, 2H) IR ($CHCl_3$) 2938, 1604, 1584, 1518, 1478, 1370, 1331, 1241, 1176, 1150, 1010, 987, 937, 872, 846 cm^{-1}

Table 223

I-1130	mp 142-144 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76-1.77 (d, J = 0.9 Hz, 3H), 1.79-1.80 (d, J = 0.9 Hz, 3H), 2.16 (s, 3H), 2.60 (s, 3H), 3.20 (s, 3H), 3.57 (s, 3H), 3.88 (s, 3H), 4.62-4.65 (d, J = 6.6 Hz, 2H), 5.55 (m, 1H), 6.83-6.87 (m, 2H), 7.00 (d, J = 8.4 Hz, 1H), 7.18 (s, 1H), 7.35-7.38 (m, 2H), 7.67-7.70 (m, 2H) IR ($CHCl_3$) 1604, 1582, 1517, 1478, 1416, 1370, 1332, 1240, 1176, 1150, 1093, 1008, 987, 936, 872 cm^{-1}
I-1131	mp 121-123 ℃ ^{1}H NMR (DMSO-d_6) δ 1.70 (s, 3H), 1.71 (s, 3H), 3.71-3.75 (m, 4H), 3.75 (s, 6H), 5.21-5.27 (m, 2H), 5.54-5.59 (m, 2H), 6.65-6.71 (m, 2H), 6.95 (s, 2H), 7.19-7.29 (m, 4H) IR (KBr) 3600-2800(br), 1627, 1536, 1497, 1470, 1454, 1375, 1341, 1257, 1208, 1125, 1053, 1035 cm^{-1}
I-1132	mp 169-170 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (d, J = 0.6 Hz, 3H), 1.81 (d, J = 0.9 Hz, 3H), 2.26 (s, 6H), 4.63 (d, J = 6.6 Hz, 2H), 5.31 (s, 1H), 5.34 (s, 1H), 5.55 (m, 1H), 6.80 (dd, J = 2.1, 8.1 Hz, 1H), 6.89 (d, J = 2.1 Hz, 1H), 6.92 (d, J = 8.1 Hz, 1H), 6.98-7.13 (m, 5H) IR (KBr) 3338, 1619, 1595, 1523, 1492, 1475, 1451, 1427, 1385, 1357, 1309, 1298, 1270, 1223, 1193, 1172, 1122, 1113, 999, 983, 871, 819, 785 cm^{-1}
I-1133	mp 135-136 ℃ ^{1}H NMR ($CDCl_3$) δ 1.14 (t, J = 6.9 Hz, 3H), 2.42 (s, 3H), 3.20 (s, 3H), 3.73 (q, J = 6.9 Hz, 2H), 3.77 (s, 3H), 3.91 (s, 3H), 5.22 (s, 2H), 6.84 (s, 1H), 6.91 (dd, J = 1.8, 8.4 Hz, 1H), 6.98 (d, J = 8.4 Hz, 1H), 6.98 (d, J = 1.8 Hz, 1H), 7.28-7.47 (m, 7H), 7.68-7.73 (m, 2H) IR (KBr) 1516, 1481, 1381, 1363, 1332, 1238, 1228, 1175, 1147, 1080, 1036, 865, 843, 800 cm^{-1}

Table 224

I-1134	mp 154-155 ℃ ^{1}H NMR ($CDCl_3$) δ 1.15 (t, J = 7.2 Hz, 3H), 1.75 (d, J = 0.9 Hz, 3H), 1.79 (d, J = 0.9 Hz, 3H), 2.54 (s, 3H), 3.21 (s, 3H), 3.72 (q, J = 7.2 Hz, 2H), 3.78 (s, 3H), 3.88 (s, 3H), 4.63 (d, J = 6.9 Hz, 2H), 5.54 (m, 1H), 6.85 (s, 1H), 6.95-6.98 (m, 3H), 7.34-7.40 (m, 2H), 7.68-7.74 (m, 2H) IR (KBr) 1519, 1481, 1467, 1365, 1335, 1245, 1231, 1184, 1157, 1081, 1038, 972, 889, 872, 840, 800 cm^{-1}
I-1135	mp 136-137 ℃ ^{1}H NMR ($CDCl_3$) δ 1.16 (t, J = 6.9 Hz, 3H), 1.74 (s, 3H), 1.78 (s, 3H), 3.61 (q, J = 6.9 Hz, 2H), 3.75 (s, 3H), 3.88 (s, 3H), 4.63 (d, J = 6.9 Hz, 2H), 5.03 (s, 1H), 5.57 (m, 1H), 5.99 (s, 1H), 6.46 (s, 1H), 6.89-6.94 (m, 2H), 6.97 (d, J = 8.7 Hz, 1H), 7.01 (d, J = 1.8 Hz, 1H), 7.02 (dd, J = 1.8, 8.7 Hz, 1H), 7.51-7.57 (m, 2H) IR (KBr) 3433, 1613, 1522, 1489, 1464, 1443, 1402, 1383, 1364, 1270, 1235, 1214, 1174, 1140, 1113, 1072, 1036, 983, 825 cm^{-1}
I-1136	mp 155-157℃ ^{1}H NMR ($CDCl_3$) δ 2.05 (t, J = 2.7 Hz, 1H), 2.76 (dt, J = 6.3, 2.7 Hz, 2H), 2.77 (s, 3H), 3.21 (s, 3H), 3.28 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 4.23 (t, J = 6.3 Hz, 2H), 6.84 (s, 1H), 7.09 (d, J = 8.4 Hz, 1H), 7.36 (dd, J = 8.4, 2.1 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.41 (d, J = 2.1 Hz, 1H), 7.68 (d, J = 8.7 Hz, 2H) IR (Nujol) 3285, 1608, 1519, 1176, 1151, 1119, 1079, 970, 870, 815, 797 cm^{-1}
I-1137	foam ^{1}H NMR ($CDCl_3$) δ 1.83 (s, 3H), 2.58 (t, J = 6.6 Hz, 2H), 2.74 (s, 3H), 3.21 (s, 3H), 3.22 (s, 3H), 3.56 (s, 3H), 3.78 (s, 3H), 4.22 (t, J = 6.6 Hz, 2H), 4.84 (brs, 1H), 4.89 (brs, 1H), 6.84 (s, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.32~7.43 (m, 4H), 7.68 (d, J = 8.7 Hz, 2H). IR (Nujol) 1608, 1519, 1176, 1160, 1119, 1078, 968, 869, 816 cm^{-1}

Table 225

I-1138	foam ^{1}H NMR ($CDCl_3$) δ 1.81 (s, 3H), 2.55 (t, J = 6.6 Hz, 2H), 3.45 (s, 3H), 3.74 (s, 3H), 4.20 (t, J = 6.6 Hz, 2H), 4.85 (brs, 1H), 4.89 (brs, 1H), 6.45 (s, 1H), 6.86~7.07 (m, 5H), 7.53 (d, J = 8.7 Hz, 2H), IR (Nujol) 3531, 3328, 1612, 1587, 1523, 1489, 1287, 1226, 1115, 1072, 1011 cm^{-1}
I-1139	foam ^{1}H NMR ($CDCl_3$) δ 2.07 (t, J = 2.7 Hz, 1H), 2.72 (dt, J = 6.6, 2.7 Hz, 2H), 3.45 (s, 3H), 3.75 (s, 3H), 4.21 (t, J = 6.6 Hz, 2H), 6.45 (s, 1H), 6.87~7.10 (m, 5H), 7.53 (d, J = 8.7 Hz, 2H) IR (Nujol) 3482, 3305, 1609, 1597, 1527, 1494, 1253, 1240, 1227, 1127, 1118, 1079, 1010 cm^{-1}
I-1140	m.p 194-197 ℃ ^{1}H NMR (DMSO) δ 3.29 (s, 3H), 3.64 (s, 3H), 5.42 (s, 2H), 6.38 (s, 1H), 6.61 (dd, J =2.0, 8.2 Hz, 1H), 6.74 (d, J = 2.0 Hz, 1H), 6.84 (d, J = 8.6 Hz, 2H), 6.96 (d, J = 8.2 Hz, 1H), 7.19 (d, J = 7.8 Hz, 1H), 7.41 (d, J = 7.8 Hz, 1H), 7.43 (d, J = 8.4 Hz, 2H) IR (KBr) 3432, 1611, 1566, 1523, 1488, 1430, 1400, 1380, 1241, 1113, 1071, 814 cm^{-1}
I-1141	foam ^{1}H NMR ($CDCl_3$) δ 3.45 (s, 3H), d 3.75 (s, 3H), 3.92 (s, 3H), 5.53 (s, 2H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.94 (dd, J = 2.1, 8.7 Hz, 1H), 7.01 (d, J = 8.7 Hz, 1H), 7.10 (d, J = 2.1 Hz, 1H), 7.28 (d, J = 4.8 Hz, 1H), 7.52 (d, J = 4.8 Hz, 1H), 7.53 (d, J = 8.4 Hz, 2H) IR (KBr) 3423, 1702, 1684, 1611, 1523, 1489, 1439, 1402, 1282, 1112, 1073, 1010, 814 cm^{-1}
I-1142	foam ^{1}H NMR ($CDCl_3$) δ 2.74 (s, 3H), 3.21 (s, 3H), 3.22 (s, 3H), 3.55 (s, 3H), d 3.78 (s, 3H), 3.91 (s, 3H), 5.19 (s, 2H), 6.60 (d, J = 3.6 Hz, 1H), 6.84 (s, 1H), 7.15 (d, J = 8.4 Hz, 1H), 7.17 (d, J = 3.6 Hz, 1H), 7.36 (dd, J = 2.1, 8.4 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.41 (d, J = 2.1 Hz, 1H), 7.67 (d, J = 8.7 Hz, 2H) IR (KBr) 1728, 1519, 1481, 1365, 1177, 1150, 1079, 969, 876, 797 cm^{-1}

Table 226

I-1143	foam ^{1}H NMR ($CDCl_3$) δ 2.77 (s, 3H), 3.21 (s, 3H), 3.23 (s, 3H), 3.56 (s, 3H), d 3.78 (s, 3H), 4.18 (m, 2H), 4.78 (m, 2H), 5.94 (m, 2H), 6.84 (s, 1H), 7.11 (d, J = 8.4 Hz, 1H), 7.36 (dd, J = 2.1, 8.4 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.40 (d, J = 2.1 Hz, 1H), 7.67 (d, J = 8.7 Hz, 2H) IR (KBr) 1609, 1519, 1481, 1367, 1177, 1150, 1079, 970, 876, 797 cm^{-1}
I-1144	foam ^{1}H NMR ($CDCl_3$) δ 2.75 (s, 3H), 3.21 (s, 3H), 3.24 (s, 3H), 3.55 (s, 3H), d 3.78 (s, 3H), 4.11 (m, 2H), 4.64 (m, 2H), 6.05 (t, J = 4.5 Hz, 1H), 6.06 (t, J = 5.1 Hz, 1H), 6.84 (s, 1H), 7.07 (d, J = 8.7 Hz, 1H), 7.35 (dd, J = 2.1, 8.7 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.40 (d, J = 2.1 Hz, 1H), 7.67 (d, J = 8.7 Hz, 2H) IR (KBr) 1609, 1519, 1481, 1364, 1177, 1151, 1079, 969, 874, 797 cm^{-1}
I-1145	m.p 203-205 ℃ ^{1}H NMR ($CDCl_3$) δ 2.83 (s, 3H), 3.22 (s, 3H), 3.25 (s, 3H), 3.56 (s, 3H), d 3.79 (s, 3H), 4.30 (t, J = 1.8 Hz, 2H), 4.88 (t, J = 1.8 Hz, 2H), 6.84 (s, 1H), 7.20 (d, J = 8.7 Hz, 1H), 7.37 (dd, J = 2.1, 8.7 Hz, 1H), 7.39 (d, J = 8.7 Hz, 2H), 7.42 (d, J = 2.1 Hz, 1H), 7.67 (d, J = 8.7 Hz, 2H) IR (KBr) 3443, 1606, 1519, 1481, 1360, 1179, 1150, 1079, 877, 798 cm^{-1}
I-1146	m.p 173-174 ℃ ^{1}H NMR (CD3OD) δ 3.38 (s, 3H), 3.68 (s, 3H), 4.23 (t, J = 1.8 Hz, 2H), 4.83 (t, J = 1.8 Hz, 2H), 6.43 (s, 1H), 6.79 (dd, J = 2.1, 8.1 Hz, 1H), 6.85 (d, J = 8.7 Hz, 2H), 6.86 (d, J = 2.1 Hz, 1H), 7.04 (d, J = 8.1 Hz, 1H), 7.45 (d, J = 8.7 Hz, 2H) IR (KBr) 3399, 1612, 1586, 1523, 1487, 1401, 1217, 1114, 1067, 1013, 996, 828 cm^{-1}

Table 227

I-1147	foam ^{1}H NMR ($CDCl_3$) δ 3.39 (s, 3H), 3.45 (s, 3H), 3.74 (s, 3H), 4.17 (t, J = 1.8 Hz, 2H), 4.83 (t, J = 1.8 Hz, 2H), 6.45 (s, 1H), 6.91 (d, J = 8.7 Hz, 2H), 6.97 (dd, J = 2.1, 8.1 Hz, 1H), 7.05 (d, J = 8.1 Hz, 1H), 7.08 (d, J = 2.1 Hz, 1H), 7.52 (d, J = 8.7 Hz, 2H) IR (KBr) 3411, 1612, 1589, 1523, 1489, 1404, 1224, 1114, 1071, 1010, 939, 816 cm^{-1}
I-1148	foam ^{1}H NMR ($CDCl_3$) δ 1.14 (t, J = 7.5 Hz, 3H), 2.23 (q, J = 7.5 Hz, 2H), 2.71 (s, 3H), 3.21 (s, 3H), 3.27 (s, 3H), 3.60 (s, 3H), 3.78 (s, 3H), 4.80 (s, 2H), 6.84 (s, 1H), 7.20 (d, J = 9.0 Hz, 1H), 7.37 (dd, J = 2.1, 9.0 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.42 (d, J = 2.1 Hz, 1H), 7..68 (d, J = 8.7 Hz, 2H) IR (KBr) 2232, 1609, 1519, 1481, 1365, 1177, 1151, 1079, 970, 876, 797 cm^{-1}
I-1149	mp >280℃ (decomp.) ^{1}H NMR (DMSO-d_6) δ 3.30 (s, 3H), 3.64 (s, 3H), 4.85 (s, 2H), 6.39 (s, 1H), 6.69 (dd, J = 8.4, 2.1 Hz, 1H), 6.79 (d, J = 2.1 Hz, 1H), 6.84 (d, J = 8.7 Hz, 2H), 6.94 (d, J = 8.4 Hz, 1H), 7.44 (d, J = 8.7 Hz, 2H), 8.54 (s, 1H) IR (Nujol) 3166, 1707, 1671, 1611, 1586, 1523, 1489, 1288, 1259, 1211, 1115, 1075, 1012, 814 cm^{-1}
I-1150	foam ^{1}H NMR ($CDCl_3$) δ 1.91 (s, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 4.89 (s, 2H), 5.29 (brs, 1H), 5.36 (brs, 1H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.97 (dd, J = 8.4, 2.1 Hz, 1H), 7.07 (d, J = 8.4 Hz, 1H), 7.08 (d, J = 2.1 Hz, 1H), 7.54 (d, J = 8.7 Hz, 2H) IR (KBr) 3432, 1612, 1588, 1523, 1489, 1288, 1224, 1192, 1113, 1070, 1010, 938, 825, 813 cm^{-1}
I-1151	foam ^{1}H NMR ($CDCl_3$) δ 3.45 (s, 3H), 3.75 (s, 3H), 4.98 (d, J = 1.8 Hz, 2H), 5.92 (dt, J = 7.5, 1.8 Hz, 1H), 6.45 (s, 1H), 6.46 (d, J = 7.5 Hz, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.98 (dd, J = 8.4, 2.1 Hz, 1H), 7.09 (d, J = 2.1 Hz, 1H), 7.11 (d, J = 8.4 Hz, 1H), 7.53 (d, J = 8.7 Hz, 2H) IR (KBr) 3410, 1612, 1589, 1523, 1489, 1403, 1224, 1112, 1070, 1011, 938, 826 cm^{-1}

Table 228

I-1152	foam ^{1}H NMR ($CDCl_3$) δ 3.45 (s, 3H), 3.75 (s, 3H), 4.89 (d, J = 2.1 Hz, 2H), 5.97 (dt, J = 13.8, 2.1 Hz, 1H), 6.45 (s, 1H), 6.61 (d, J = 13.8 Hz, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.97 (dd, J = 8.4, 2.1 Hz, 1H), 7.04 (d, J = 8.4 Hz, 1H), 7.09 (d, J = 2.1 Hz, 1H), 7.54 (d, J = 8.7 Hz, 2H) IR (KBr) 3427, 1612, 1588, 1523, 1489, 1403, 1226, 1192, 1176, 1113, 1070, 1011, 938, 918, 826 cm^{-1}
I-1153	mp188-189 ℃ ^{1}H NMR ($CDCl_3$) δ 2.84 (s, 3H), 3.33 (s, 3H), 3.74 (s, 3H), 3.98 (s, 3H), 4.18 (s, 3H), 5.38 (s, 2H), 7.05 (s, 1H), 7.36-7.64 (m, 10H), 8.61 (d, J = 8.7 Hz, 1H), 8.82 (brs, 1H) IR(KBr) 3381, 2942, 1724, 1538, 1481, 1369, 1296, 1177, 1163, 1082, 963, 821 cm^{-1}
I-1154	mp78-80 ℃ ^{1}H NMR ($CDCl_3$) δ 2.17 (s, 3H), 2.67 (s, 3H), 3.13 (s, 3H), 3.57 (s, 3H), 3.79 (s, 3H), 5.19 (s, 2H), 6.83 (s, 1H), 7.15 (d, J = 8.6 Hz, 1H), 7.31-7.45 (m, 7H), 7.62 (d, J = 8.2 Hz, 1H), 7.79 (s, 1H), 8.44 (d, J = 8.6 Hz, 1H), 8.51 (brs, 1H) IR(KBr) 3398, 2939, 1739, 1529, 1477, 1368, 1287, 1240, 1177, 1119, 1078, 957, 815, 796, 522 cm^{-1}
I-1155	mp74-75 ℃ ^{1}H NMR ($CDCl_3$) δ 1.68 (s, 3H), 1.76 (s, 6H), 1.81 (s, 3H), 2.69 (s, 3H), 3.24 (s, 3H), 3.52 (s, 3H), 3.80 (s, 3H), 3.88 (s, 3H), 3.88-4.02 (m, 2H), 4.64 (d, J = 7.2 Hz, 2H), 5.25 (t, J = 7.8 Hz, 1H), 5.50 (t, J = 5.7 Hz, 1H), 6.88 (s, 1H), 7.08-7.38 (m, 6H) IR(KBr) 3412, 2939, 1697, 1519, 1483, 1366, 1268, 1207, 1178, 1080, 964, 808, 523 cm^{-1}
I-1156	mp72-74 ℃ ^{1}H NMR ($CDCl_3$) δ 1.95 (s, 3H), 1.99 (s, 3H), 2.87 (s, 3H), 3.42 (s, 3H), 3.74 (s, 3H), 3.97 (s, 3H), 4.16 (s, 3H), 4.82 (d, J = 6.6 Hz, 2H), 5.68 (t, J = 5.7 Hz, 1H), 7.04 (s, 1H), 7.27 (d, J = 8.1 Hz, 1H), 7.39-7.56 (m, 4H), 8.60 (d, J = 8.4 Hz, 1H), 8.81 (brs, 1H) IR(KBr) 3407, 2940, 1731, 1601, 1538, 1481, 1366, 1294, 1178, 1165, 1079, 805, 562 cm^{-1}

Table 229

I-1157	mp68-69 ℃ ^{1}H NMR ($CDCl_3$) δ 1.70 (s, 3H), 1.77 (s, 3H), 1.81 (s, 3H), 2.70 (s, 3H), 3.25 (s, 3H), 3.55 (s, 3H), 3.81 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.27 (t, J = 7.5 Hz, 1H), 5.50 (t, J = 6.9 Hz, 1H), 6.86 (s, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.25-7.40 (m, 3H), 7.57 (d, J = 8.1 Hz, 1H), 7.76 (s, 1H) IR(KBr) 3422, 2939, 1701, 1519, 1480, 1368, 1203, 1177, 1078, 957, 801, 522 cm^{-1}
I-1158	mp64-66 ℃ ^{1}H NMR ($CDCl_3$) δ 3.47 (s, 3H), 3.74 (s, 3H), 5.19 (s, 2H), 5.86 (brs, 1H), 6.44 (s, 1H), 7.08-7.69 (m, 11H), 8.06 (brs, 1H) IR(KBr) 3399, 2938, 1726, 1624, 1604, 15263, 1487, 1403, 1302, 1208, 1178, 1068, 695, 520 cm^{-1}
I-119	mp68-70 ℃ ^{1}H NMR ($CDCl_3$) δ 2.57 (s, 3H), 3.57 (s, 3H), 3.76 (s, 3H), 5.21 (s, 2H), 6.84 (s, 1H), 7.11-7.73 (m, 11H), 8.29 (brs, 1H) IR(KBr) 3422, 2939, 1728, 1605, 1523, 1482, 1397, 1367, 1233, 1209, 1178, 1078, 795, 725, 542 cm^{-1}
I-1160	mp72-73 ℃ ^{1}H NMR ($CDCl_3$) δ 1.75 (s, 6H), 1.78 (s, 3H), 1.82 (s, 3H), 3.48 (s, 3H), 3.75 (s, 3H), 3.76 (d, J = 7.2 Hz, 2H), 3.89 (s, 3H), 4.38 (brs, 1H), 4.61 (d, J = 6.9 Hz, 2H), 5.41 (t, J = 6.3 Hz, 1H), 5.53 (t, J = 6.9 Hz, 1H), 5.68 (brs, 1H), 5.94 (brs, 1H), 6.49 (s, 3H), 6.69 (d, J = 8.4 Hz, 1H), 6.95 (s, 1H), 7.06 (s, 1H), 7.13-7.15 (m, 2H), 7.26 (s, 1H) IR(KBr) 3423, 2932, 1608, 1528, 1490, 1459, 1250, 1113, 1071, 805, 757 cm^{-1}
I-1161	mp68-69 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.81 (s, 3H), 3.48 (s, 3H), 3.75 (s, 3H), 3.91 (s, 3H), 4.61 (d, J = 7.2 Hz, 2H), 5.53 (t, J = 6.0 Hz, 1H), 5.91 (brs, 2H), 6.47 (s, 1H), 6.83 (d, J = 8.1 Hz, 2H), 6.95 (s, 1H), 7.06-7.09 (m, 2H), 7.16 (s, 1H), 7.26 (s, 1H) IR(KBr) 3406, 2933, 1524, 1490, 1397, 1270, 1241, 1116, 1075, 1069, 811, 773 cm^{-1}

Table 230

1-1162	mp81-83 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 6H), 1.79 (s, 3H), 1.81 (s, 3H), 3.50 (s, 3H), 3.75 (s, 3H), 3.80 (d, J = 6.6 Hz, 2H), 4.36 (brs, 1H), 4.61 (d, J = 6.9 Hz, 2H), 5.39 (t, J = 6.3 Hz, 1H), 5.53 (t, J = 6.6 Hz, 1H), 5.68 (brs, 1H), 5.90 (brs, 1H), 6.43 (s, 1H), 6.73 (d, J = 8.4 Hz, 1H), 6.95 (s, 1H), 7.05 (s, 1H), 7.26 (d, J = 0.9 Hz, 1H), 7.47 (dd, J = 2.1, 8.4 Hz, 1H), 7.59 (d, J = 2.1 Hz, 1H) IR(KBr) 3484, 2931, 1607, 1525, 1488, 1310, 1243, 1114, 1070, 1009, 808 cm^{-1}
1-1163	mp87-89 ℃ ^{1}H NMR ($CDCl_3$) δ 2.81 (s, 3H), 3.60 (s, 3H), 3.77 (s, 3H), 3.98 (d, J = 6.3 Hz, 2H), 4.80 (d, J = 6.3 Hz, 2H), 6.07 (t, J = 6.0 Hz, 1H), 6.25 (t, J = 6.3 Hz, 1H), 6.46-6.53 (m, 2H), 6.86 (s, 1H), 7.05-7.38 (m, 4H) IR(KBr) 3411, 2937, 1628, 1527, 1482, 1364, 1233, 1176, 1077, 960, 879, 792, 524 cm^{-1}
1-1164	amorphous ^{1}H NMR ($CDCl_3$) δ 2.68 (s, 3H), 3.13 (s, 3H), 3.43 (s, 3H), 3.54 (s, 3H), 3.80 (s, 3H), 5.19 (s, 2H), 6.87 (s, 1H), 7.16 (d, J = 8.7 Hz, 1H), 7.32-7.49 (m, 9H), 7.69 (d, J = 8.4 Hz, 2H) IR (KBr) 1698, 1522, 1482, 1367, 1080, 1014, 947, 815, 795 cm^{-1}
1-1165	foam ^{1}H NMR ($CDCl_3$) δ 1.47 (s, 3H), 1.72 (s, 3H), 1.77 (s, 3H), 1.81 (s, 3H), 2.71 (s, 3H), 3.24 (s, 3H), 3.51 (s, 3H), 3.80 (s, 3H), 4.37 (d, J = 7.8 Hz, 2H), 4.64 (d, J = 6.6 Hz, 2H), 5.29 (t, J = 7.8 Hz, 1H), 5.50 (t, J = 6.6 Hz, 1H), 6.88 (s, 1H), 7.09 (d, J = 8.4 Hz, 1H), 7.27 (d, J = 8.7 Hz, 2H), 7.35 (dd, J = 8.4, 2.3 Hz, 1H), 7.39 (d, J = 2.3 Hz, 1H), 7.66 (d, J = 8.7 Hz, 2H) IR(KBr) 1696, 1521, 1482, 1366, 1177, 1080, 972, 946, 814, 795 cm^{-1}
1-1166	mp 135-136 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.71 (s, 3H), 3.24 (s, 3H), 3.54 (s, 3H), 3.80 (s, 3H), 4.64 (d, J = 6.7 Hz, 2H), 5.50 (t, J = 6.7 Hz, 1H), 6.87 (s, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.34 (d, J = 8.1 Hz, 2H), 7.35 (dd, J = 8.4, 2.2 Hz, 1H), 7.39 (d, J = 2.2 Hz, 1H), 7.69 (d, J = 8.1 Hz, 2H) IR (KBr) 1702, 1522, 1481, 1362, 1275, 1150, 1081, 1014, 978, 817, 793 cm^{-1}

Table 231

I-1167	mp 169-171 ℃ ^{1}H NMR (DMSO-d_6) δ 1.71 (s, 3H), 1.72 (s, 6H), 1.76 (s, 3H), 3.31 (s, 3H), 3.63 (s, 3H), 3.64 (m, 2H), 4.54 (d, J = 6.8 Hz, 2H), 5.29 (t, J = 7.5 Hz, 1H), 5.49 (t, J = 6.8 Hz, 1H), 5.75 (t, J = 8.1 Hz, 1H), 6.37 (s, 1H), 6.63 (d, J = 8.4 Hz, 2H), 6.64 (dd, J = 8.1, 2.0 Hz, 1H), 6.73 (d, J = 2.0 Hz, 1H), 6.88 (d, J = 8.4 Hz, 2H), 7.37 (d, J = 8.4 Hz, 2H), 8.41 (s, 1H), 8.70 (s, 1H) IR (KBr) 3473, 3276, 1608, 1523, 1491, 1310, 1252, 1190, 1112, 1072, 934, 824, 776 cm^{-1}
I-1168	mp 159-160 ℃ ^{1}H NMR (DMSO-d_6) δ 1.72 (s, 3H), 1.76 (s, 3H), 3.31 (s, 3H), 3.64 (s, 3H), 4.54 (d, J = 6.8 Hz, 2H), 5.49 (t, J = 6.8 Hz, 1H), 5.76 (br s, 1H), 6.37 (s, 1H), 6.61 (d, J = 8.4 Hz, 2H), 6.64 (dd, J = 8.1, 2.0 Hz, 1H), 6.73 (d, J = 2.0 Hz, 1H), 6.88 (d, J = 8.1 Hz, 1H), 7.39 (d, J = 8.4 Hz, 2H), 7.37 (d, J = 8.4 Hz, 2H), 8.42 (br s, 1H), 8.70 (br s, 1H) IR (KBr) 3458, 3332, 1609, 1524, 1492, 1411, 1393, 1295, 1234, 1107, 1071, 1012, 994, 781 cm^{-1}
I-1169	mp 183-184 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (d, J = 0.6 Hz, 3H), 1.82 (s, 3H), 3.13 (s, 3H), 3.48 (s, 3H), 3.76 (s, 3H), 4.63 (d, J = 6.9 Hz, 2H), 5.53 (m, 1H), 5.72 (s, 1H), 5.83 (s, 1H), 6.46 (s, 1H), 6.93 (dd, J = 1.8, 8.4 Hz, 1H), 6.98 (d, J = 8.4 Hz, 1H), 7.04 (d, J = 1.8 Hz, 1H), 7.82-7.89 (m, 2H), 8.00-8.06 (m, 2H) IR (KBr) 3445, 1593, 1499, 1482, 1461, 1387, 1311, 1278, 1245, 1189, 1146, 1111, 1086, 1068, 1010, 997, 942, 766 cm^{-1}
I-1170	mp 178-179 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 2.80 (s, 3H), 3.47 (s, 3H), 3.76 (s, 3H), 4.62 (d, J = 7.2 Hz, 2H), 5.53 (m, 1H), 5.72 (s, 1H), 5.86 (s, 1H), 6.47 (s, 1H), 6.94 (dd, J = 1.8, 8.1 Hz, 1H), 6.98 (d, J = 8.1 Hz, 1H), 7.05 (d, J = 1.8 Hz, 1H), 7.72-7.77 (m, 2H), 7.79-7.85 (m, 2H) IR (KBr) 3420, 1587, 1527, 1482, 1449, 1430, 1416, 1390, 1357, 1290, 1240, 1214, 1198, 1135, 1115, 1073, 1019, 998, 975, 962, 937, 831 cm^{-1}

Table 232

I-1171	mp 136-139 ℃ ^{1}H NMR ($CDCl_3$) δ 1.73 (s, 3H), 1.77 (s, 3H), 2.99 (s, 6H), 3.71 (d, J = 6.6 Hz, 2H), 3.76 (s, 3H), 3.78 (s, 3H), 5.32-5.37 (m, 1H), 6.36-6.46 (m, 2H), 6.79-6.84 (m, 2H), 6.89 (s, 1H), 6.95 (s, 1H), 7.18-7.24 (m, 1H), 7.47-7.52 (m, 2H) IR (KBr) 3600-2800(br), 1626, 1609, 1531, 1493, 1460, 1444, 1388, 1345, 1232, 1207, 1173, 1124, 1050, 1028 cm^{-1}
I-1172	mp 113-114 ℃ ^{1}H NMR ($CDCl_3$) δ 3.00 (s, 6H), 3.77 (s, 3H), 3.78 (s, 3H), 6.78-6.84 (m, 2H), 6.88 (s, 1H), 6.98 (s, 1H), 7.31 (dd, J = 2.1, 8.4 Hz, 1H), 7.43-7.53 (m, 3H), 7.58 (dd, J = 1.8, 11.1 Hz, 1H) IR (KBr) 3600-2800(br), 1711, 1609, 1533, 1493, 1464, 1390, 1212, 1181, 1162, 1052, 1027 cm^{-1}
I-1173	mp 141-143 ℃ ^{1}H NMR ($CDCl_3$) δ 1.75 (d, J = 0.9 Hz, 3H), 1.78 (d, J = 0.9 Hz, 3H), 2.99 (s, 6H), 3.50 (s, 3H), 3.74 (s, 3H), 3.78 (d, J = 6.6 Hz, 2H), 3.93 (br, 1H), 5.35-5.40 (m, 1H), 5.86 (s, 1H), 6.44 (s, 1H), 6.74-6.86 (m, 3H), 7.30-7.38 (m, 4H) IR (KBr) 3600-2800(br), 1625, 1611, 1530, 1491, 1458, 1444, 1400, 1348, 1333, 1250, 1217, 1103, 1075 cm^{-1}
I-1174	mp 226-228 ℃ ^{1}H NMR ($CDCl_3$) δ 3.93 (s, 3H), 4.95 (s, 1H), 5.21 (s, 2H), 6.90-6.94 (m, 2H), 6.96 (s, 1H), 6.97 (s, 1H), 7.03 (d, J = 0.9 Hz, 1H), 7.30-7.49 (m, 1H) IR (KBr) 3600-2800(br), 1608, 1589, 1520, 1471, 1446, 1384, 1358, 1270, 1250, 1238, 1210, 1172, 1141, 1093, 1031, 997 cm^{-1}
I-1175	mp 143-145 ℃ ^{1}H NMR ($CDCl_3$) δ 3.21 (s, 3H), 3.93 (s, 3H), 5.22 (s, 2H), 6.97 (s, 2H), 7.03 (s, 1H), 7.30-7.55 (m, 11H) IR (KBr) 3600-2800(br), 1602, 1517, 1468, 1368, 1348, 1248, 1210, 1176, 1151, 1095, 1038, 989 cm^{-1}

Table 233

I-1176	mp 98-100 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.79 (s, 3H), 3.21 (s, 3H), 3.91 (s, 3H), 4.65 (d, J = 6.9 Hz, 2H), 5.53-5.58 (m, 1H), 6.94-7.03 (m, 3H), 7.23-7.41 (m, 2H), 7.45 (s, 1H), 7.49 (s, 1H), 7.51-7.56 (m, 1H) IR (KBr) 3600-2800(br), 1604, 1583, 1519, 1470, 1449, 1365, 1250, 1202, 1177, 1151, 1095, 1041, 972 cm^{-1}
I-1177	mp 118-120 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.79 (s, 3H), 3.91 (s, 3H), 4.64 (d, J = 6.9 Hz, 2H), 5.53-5.58 (m, 1H), 6.88-7.02 (m, 5H), 7.23-7.37 (m, 2H), 7.44 (s, 1H), 7.46 (s, 1H) IR (KBr) 3600-2800(br), 1626, 1609, 1526, 1490, 1429, 1253, 1187 cm^{-1}
I-1178	mp 161-164 ℃ ^{1}H NMR ($CDCl_3$) δ 3.00 (s, 3H), 3.79 (s, 3H), 3.80 (s, 3H), 6.78-6.83 (m, 2H), 6.90 (s, 1H), 6.97 (s, 1H), 7.47-7.52 (m, 2H), 7.71 (d, J = 1.8 Hz, 1H), 8.37 (d, J = 8.7 Hz, 1H), 8.46 (br s, 1H) IR (KBr) 3600-2800(br), 1716, 1613, 1532, 1505, 1487, 1463, 1384, 1357, 1280, 1195, 1172, 1059, 1033 cm^{-1}
I-1179	mp 135-137 ℃ ^{1}H NMR ($CDCl_3$) δ 1.74 (s, 3H), 1.78 (s, 3H), 3.00 (s, 6H), 3.78 (s, 3H), 3.79 (s, 3H), 4.29 (d, J = 6.6 Hz, 1H), 5.35-5.40 (m, 1H), 6.71 (d, J = 8.4 Hz, 1H), 6.80-6.83 (m, 2H), 6.90 (s, 1H), 6.94 (s, 1H), 7.38-7.42 (m, 1H), 7.48-7.56 (m, 3H) IR (KBr) 3600-2800(br), 1612, 1532, 1495, 1460, 1444, 1385, 1365, 1273, 1257, 1203, 1059, 1039, 1029 cm^{-1}
I-1180	^{1}H NMR ($CDCl_3$) δ 1.57 (d, J = 6.3Hz, 3H), 2.26 (s, 3H), 2.28 (s, 3H), 5.18 (s, 2H), 5.22 (q, J = 6.3 Hz, 1H), 7.02 (d, J = 8.4 Hz, 1H), 7.12 (s, 1H), 7.15 (s, 1H), 7.23 (d.d, J = 8.4 & 2.1 Hz, 1H), 7.30 - 7.51 (m, 10H) IR (KBr) 3557, 1605, 1486, 1370, 1235, 1177, 1149, 1078, 1017 cm^{-1}
I-1181	^{1}H NMR ($CDCl_3$) δ 1.66 (s, 6H), 2.27 (s, 3H), 2.28 (s, 3H), 3.20 (s, 3H), 4.22 (s, 1H), 5.22 (s, 2H), 7.06 (d, J = 8.4 Hz, 1H), 7.12 (s, 1H), 7.14 (s, 1H), 7.23 (d.d, J = 8.4 & 2.1Hz, 1H), 7.30 - 7.51 (m, 10H) IR (KBr)3544,3441, 1604, 1512, 1485, 1367, 1222, 1173, 1149 cm^{-1}

Table 234

I-1182	^{1}H NMR ($CDCl_3$) δ 1.28 (t, J = 7.2Hz, 3H), 2.26 (s, 3H), 2.28 (s, 3H), 2.70 (q, J = 7.2Hz, 2H), 3.20 (s, 3H), 4.73 (s, 1H), 6.82 (d, J = 8.4Hz, 1H), 7.03 - 7.11 (m, 2H), 7.14 (s, 1H), 7.15 (s, 1H), 7.29 - 7.46 (m, 4H) IR (KBr) 3510, 1605, 1515, 1488, 1369, 1263, 1177, 1147, 1117 cm^{-1}
I-1183	^{1}H NMR ($CDCl_3$) δ 1.29 (d, J = 6.9Hz, 6H), 2.27 (s, 3H), 2.28 (s, 3H), 3.20 (s, 3H), 3.27 (qintet, J = 6.9Hz, 1H), 4.76 (s, 1H), 6.81(d, J = 7.8Hz, 1H), 7.07(d.d, J = 7.8 & 2.1 Hz, 1H), 7.11 (s, 1H), 7.15 (s, 1H), 7.20 (d, J = 2.1Hz, 1H), 7.34 (d, J = 8.7Hz, 2H), 7.42 (d, J = 8.7Hz, 2H), IR (KBr) 3511, 1606, 1484, 1356, 1174, 1151 cm^{-1}
I-1184	^{1}H NMR ($CDCl_3$) δ 1.23 (t, J = 8.1Hz, 3H), 1.77 (s, 3H), 1.82 (s, 3H), 2.26 (s, 3H), 2.29 (s, 3H), 2.70 (q, J = 8.1Hz, 2H), 3.20 (s, 3H), 4.58 (d, J = 6.6 Hz, 2H), 5.48 - 5.57 (m, 1H), 6.90 (d, J = 7.8 Hz, 1H), 7.08 - 7.13 (m, 2H), 7.16 (s, 2H), 7.23 - 7.47 (m, 4H) IR (KBr) 1605, 1485, 1369, 1352, 1236, 1201, 1174, 1150, 1133, 1008 cm^{-1}
I-1185	^{1}H NMR ($CDCl_3$) δ 1.23 (t, J = 7.5Hz, 3H), 1.76 (s, 3H), 1.81 (s, 3H), 2.27 (s, 3H), 2.29 (s, 3H), 2.70 (q, J = 7.5Hz, 2H), 4.57 (d, J = 6.6 Hz, 2H), 4.79 (brs, 1H), 5.49 - 5.58 (m, 1H), 6.83 - 6.92 (m, 3H), 7.08 - 7.19 (m, 4H), 7.27 (.d, J = 8.4 Hz, 2H) IR (KBr) 3529, 1608, 1519, 1487, 1241, 1136, 1024 cm^{-1}
I-1186	^{1}H NMR ($CDCl_3$) δ 1.23 (d, J = 1.8Hz, 6H), 1.76 (s, 3H), 1.82 (s, 3H), 2.27 (s, 3H), 2.29 (s, 3H), 3.20 (s, 3H), 3.40 (quintet, J = 1.8Hz, 1H), 4.58 (d, J = 6.6 Hz, 2H), 5.48 - 5.59 (m, 1H), 6.90 (d, J = 7.8 Hz, 1H), 7.10 - 7.44 (m, 8H) IR (KBr)1602, 1468, 1369, 1232, 1174, 1151 cm^{-1}
I-1187	^{1}H NMR ($CDCl_3$) δ 1.24 (d, J = 6.9Hz, 6H), 1.76 (s, 3H), 1.81 (s, 3H), 2.27 (s, 3H), 2.29 (s, 3H), 3.40 (quintet, J = 6.9Hz, 1H), 4.58 (d, J = 6.6 Hz, 2H), 4.79 (broad, s., 1H), 5.50 - 5.57 (m, 1H), 6.84 - 6.93 (m, 3H), 7.09 - 7.16 (m, 3H), 7.00 - 7.28 (m, 3H) IR (KBr) 3265, 1607, 1519, 1486, 1448, 1383, 1232, 1170 cm^{-1}

Table 235

I-1188	^{1}H NMR ($CDCl_3$) δ 1.31 (d, J = 6.9Hz, 6H), 1.44 (s, 3H), 1.67 (s, 3H), 2.97 (quintet, J = 6.9Hz, 1H), 3.78 (s, 3H), 3.80 (s, 3H), 3.92 (s, 3H), 4.20 - 4.30 (broad, 1H), 5.17 - 5.30 (m, 1H), 6.96 (s, 1H), 6.99 (s, 1H), 7.07 - 7.35 (m, 5H), 7.52 (d, J = 8.1 Hz, 2H) IR (KBr) 3422, 1601, 1529, 1492, 1462, 1378, 1341, 1257, 1203, 1138, 1028 cm^{-1}
I-1189	^{1}H NMR ($CDCl_3$) δ 2.67 (s, 3H), 3.13 (s, 3H), 3.57 (s, 3H), 3.79 (s, 3H), 5.19 (s, 2H), 6.84 (s, 1H), 7.15 (d, J = 9.0 Hz, 1H), 7.31 - 7.50 (m, 8H), 7.55 (d.d, J = 12.0 & 1.8 Hz, 1H), 8.34 - 8.41 (m, 1H) IR (KBr)3428, 1740, 1601, 1535, 1482, 1366, 1292, 1238, 1177, 1164, 1112, 1079, 1013cm^{-1}
I-1190	^{1}H NMR ($CDCl_3$) δ 1.48 (s, 3H), 1.70 (s, 3H), 1.77 (s, 3H), 1.81 (s,3H), 2.70 (s, 3H), 3.24 (s, 3H), 3.55 (s, 3H), 3.81 (s, 3H), 4.09 - 4.20 (m, 1H),4.53 - 4.68 (m, 3H), 5.18 - 5.30 (m, 1H), 5.43 - 5.54 (m, 1H), 6.86 (s, 1H), 7.06 - 7.51 (m, 6H) IR (KBr) 1702, 1521, 1482, 1367, 1204, 1177, 1115, 1080 cm^{-1}
I-1191	^{1}H NMR ($CDCl_3$) δ 1.75 (s, 6H), 1.78 (s, 3H), 1.82 (s, 3H), 3.49 (s,3H), 3.74 (s, 3H), 3.79 (d, J = 6.3Hz, 2H), 4.61 (d, J = 6.6Hz, 2H), 5.32 - 5.43 (m, 1H), 5.49 - 5.57 (m, 1H), 5.68 (s, 1H), 5.90 (s, 1H), 6.44 (s, 1H), 6.74 - 6.85 (m, 1H), 6.95 (s, 2H), 7.05 (s, 1H), 7.29 - 7.38 (m, 2H) IR (KBr) 3527, 1624, 1530, 1491, 1248, 1221, 1197, 1125, 1105, 1072 cm^{-1}
I-1192	^{1}H NMR ($CDCl_3$) δ 1.75 (s, 3H), 1.78 (s, 3H), 3.49 (s, 3H), 3.73 (s, 3H), 3.78 (d, J = 6.9 Hz, 2H), 5.32 - 5.43 (m, 1H), 6.44 (s, 1H), 6.73 - 6.97 (m, 4H), 7.25 - 7.37 (m, 2H) IR (KBr)3551,3437,3310, 1607, 1529, 1491, 1463, 1402, 1362, 1269, 1255, 1184, 1099,1070, 1013 cm^{-1}
I-1193	^{1}H NMR ($CDCl_3$) δ 2.28 (s, 3H), 2.30 (s, 3H), 3.00 (s, 6H), 5.16 (s, 2H), 5.69 (s, 1H), 6.80 (d, J = 8.7 Hz, 2H), 6.84 (d.d, J = 8.1 & 2.1 Hz, 1H), 6.98 (.d, J = 8.1Hz, 1H), 6.99 (d, J = 2.1 Hz, 1H), 7.12(s, 1H), 7.13 (s, 1H), 7.27 (d, J = 8.7Hz, 2H), 7.34 - 7.50 (m, 5H) IR (KBr)1605, 1525, 1490, 1417, 1242, 1199, 1127, 1006 cm^{-1}

Table 236

1-1194	mp 174-175 ℃ ^{1}H NMR ($CDCl_3$) δ 3.48 (s, 3H), 3.78 (s, 3H), 4.41 (s, 4H), 5.17 (s, 2H), 5.71 (s, 1H), 5.88 (s, 1H), 6.48 (s, 1H), 6.94-7.50 (m, 18H), 7.86 (ABq, J = 8.4 Hz, 4H) IR (KBr) 3463, 3409, 1588, 1519, 1482, 15455, 1417, 1385, 1321, 1285, 1247, 1154, 1112, 1096, 1067, 1015 cm^{-1}
1-1195	mp 165-167 ℃ ^{1}H NMR ($CDCl_3$) δ 2.68 (s, 3H), 3.14 (s, 3H), 3.56 (s, 3H), 3.81 (s, 3H), 4.40 (s, 4H), 5.20 (s, 2H), 6.86 (s, 1H), 7.09-7.50 (m, 18H), 7.79 (ABq, J = 8.1 Hz, 4H) IR (KBr) 3434, 2938, 1606, 1596, 1518, 1478, 1455, 1368, 1335, 1293, 1268, 1239, 1174, 1157, 1118, 1079 cm^{-1}
1-1196	mp 176-178 ℃ ^{1}H NMR ($CDCl_3$) δ 1.58 (s, 3H), 1.66 (s, 3H), 1.77 (s, 3H), 1.81 (s, 3H), 2.71 (s, 3H), 3.24 (s, 3H), 3.55 (s, 3H), 3.64 (m, 2H), 3.80 (s, 3H), 4.28 (t, J = 6.0 Hz, 1H), 4.64 (d, J = 6.9 Hz, 2H), 5.10 (m, 1H), 5.49 (m, 1H), 6.86 (s, 1H), 7.10 (d, J = 8.4 Hz, 1H), 7.35 (dd, J = 2.1, 8.4 Hz, 1H), 7.39 (d, J = 2.1 Hz, 1H), 7.87 (ABq, J = 8.7 Hz, 4H) IR (KBr) 3434, 3321, 2939, 1517, 1477, 1366, 1325, 1292, 1269, 1240, 1176, 1156, 1120, 1077 cm^{-1}
1-1197	mp 180-181 ℃ ^{1}H NMR (DMSO) δ 1.74 (s, 3H), 1.77 (s, 3H), 2.87 (s, 3H), 3.36 (s, 3H), 3.51 (s, 3H), 3.79 (s, 3H), 4.68 (d, J = 6.6 Hz, 2H), 5.48 (m, 1H), 7.10 (s, 1H), 7.28-7.30 (m, 3H), 7.45 (bs, 2H), 7.87 (ABq, J = 8.7 Hz, 4H) IR (KBr) 3340, 3238, 2939, 1598, 1518, 1481, 1362, 1333, 1291, 1270, 1239, 1172, 1161, 1120, 1076, 1007 cm^{-1}
1-1198	oil ^{1}H NMR ($CDCl_3$) δ 1.45 (s, 3H), 1.66 (s, 3H), 1.87 (s, 3H), 2.24 (s, 3H), 2.27 (s, 3H), 2.30 (s, 3H), 3.84 (s, 3H), 3.92 (s, 3H), 3.95-4.03 (m, 1H), 4.50-4.58 (m, 1H), 5.22-5.29 (m, 1H), 6.87-6.99 (m, 4H), 7.09-7.17 (m, 3H), 7.80 (s, 1H), 8.34-8.42 (m, 1H) IR ($CHCl_3$) 3673, 3021, 1685, 1639, 1525, 1495, 1406, 1237, 1128, 1037 cm^{-1}

Table 237

I-1199	mp 177-179 ℃ ^{1}H NMR ($CDCl_3$) δ 1.45 (s, 6H), 1.66 (s, 6H), 1.87 (s, 6H), 2.29 (s, 6H), 3.85 (s, 6H), 3.95-4.04 (m, 2H), 4.50-4.59 (m, 2H), 5.23-5.29 (m, 2H), 6.90-6.95 (m, 4H), 7.10-7.15 (m, 2H), 7.19 (s, 2H) IR (KBr) 2929, 1661, 1492, 1405, 1288, 1214, 1030, 869, 829 cm^{-1}
I-1200	mp 224-226 ℃ ^{1}H NMR ($CDCl_3$) δ 2.88 (s, 3H), 3.22 (s, 3H), 3.54 (s, 3H), 3.78 (s, 3H), 6.43 (s, 1H), 6.85 (s, 1H), 7.01 (d, J = 8.4 Hz, 1H), 7.20 (dd, J = 2.1, 8.4 Hz, 1H), 7.35-7.42 (m, 2H), 7.65-7.72 (m, 2H), 7.96 (d, J = 2.1 Hz, 1H), 8.96 (s, 1H) IR (KBr) 3441, 3370, 3024, 2938, 1729, 1508, 1481, 1365, 1177, 1148, 1085, 884, 798, 524 cm^{-1}
I-1201	powder ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.80 (s, 3H), 3.21 (s, 3H), 3.56 (s, 3H), 3.79 (s, 3H), 4.67 (d, J = 6.6 Hz, 2H), 5.46-5.51 (m, 1H), 6.84 (s, 1H), 7.05 (d, J = 8.1 Hz, 1H), 7.22-7.26 (m, 1H), 7.36-7.41 (m, 2H), 7.67-7.71 (m, 2H), 8.35 (d, J = 1.8 Hz, 1H), 9.24 (s, 1H) IR (KBr) 3385, 2937, 1718, 1532, 1479, 1362, 1175, 1152, 1078, 973, 876, 797, 526 cm^{-1}
I-1202	mp 260-262 ℃ ^{1}H NMR (DMSO) δ 2.27 (s, 6H), 3.87 (s, 6H), 7.00 (dd, J = 1.8, 8.1 Hz, 2H), 7.10 (d, J = 1.8 Hz, 2H), 7.21 (s, 2H), 7.48 (d, J = 8.1 Hz, 2H), 10.73 (s, 2H) IR (KBr) 3392, 3008, 1719, 1600, 1542, 1413, 1297, 1158, 1032, 905, 627 cm^{-1}
I-1203	mp 143-144 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 3.61 (s, 3H), 3.67 (s, 3H), 3.73 (s, 3H), 3.87 (s, 3H), 4.62 (d, J = 6.9 Hz, 2H), 5.50-5.58 (m, 1H), 5.66 (s, 1H), 6.86-7.02 (m, 5H), 7.54 (d, J = 9 Hz, 2H) IR (KBr) 3494, 2935, 1673, 1609, 1584, 1519, 1479, 1456, 1389, 1284, 1249, 1178, 1109, 1081, 1016, 829, 798 cm^{-1}

Table 238

I-124	mp 90-91 ℃ ^{1}H NMR (CDCl$_3$) δ 1.72 (s, 3H), 1.79 (s, 3H), 2.26 (s, 6H), 4.69 (d, J = 7.2 Hz, 2H), 4.9-5.0 (brs, 1H), 5.57 (t, J = 7.2 Hz, 1H), 6.85-7.0 (m, 4H), 7.10 (d, J = 8.7 Hz, 2H), 7.23 (d, J = 8.7 Hz, 2H) IR (KBr) 3253, 3013, 2979, 2928, 1676, 1584, 1521, 1492, 1232, 1034, 950, 848, 825 cm^{-1}
I-1205	mp 131-132 ℃ ^{1}H NMR (CDCl$_3$) δ 1.73 (s, 3H), 1.79 (s, 3H), 3.43 (s, 3H), 3.76 (s, 3H), 4.68 (d, J = 6.9 Hz, 2H), 4.9-5.1 (brs, 1H), 5.58 (t, J = 7.2 Hz, 1H), 6.09 (brs, 1H), 6.44 (s, 1H), 6.92 (d, J = 8.4 Hz, 2H), 7.0-7.1 (m, 2H), 7.52 (d, J = 8.4 Hz, 2H) IR (KBr) 3428, 2951, 2932, 1671, 1611, 1523, 1491, 1402, 1233, 1111, 1077, 1027, 969, 833 cm^{-1}
I-1206	mp 191-192 ℃ ^{1}H NMR (CDCl$_3$) δ 2.15 (s, 6H), 3.22 (s, 3H), 3.87 (s, 3H), 5.18 (AB q, J = 12.0 Hz, 2H), 6.74 (dd, J = 2.1, 8.1 Hz, 1H), 6.78 (d, J = 2.1 Hz, 1H), 6.93 (d, J = 8.1 Hz, 1H), 7.24 (s, 1H), 7.30-7.50 (m, 9H) IR (KBr) 1528, 1479, 1453, 1364, 1326, 1262, 1243, 1223, 1209, 1200, 1176, 1152, 1137, 963, 870, 846, 754 cm^{-1}
I-1207	mp 108-109 ℃ ^{1}H NMR (CDCl$_3$) δ 1.77 (s, 3H), 1.82 (d, J = 0.6 Hz, 3H), 2.27 (s, 3H), 2.28 (s, 3H), 4.56 (d, J = 6.6 Hz, 2H), 4.89 (s, 1H), 5.54 (m, 1H), 6.86-6.92 (m, 2H), 6.94-7.00 (m, 2H), 7.12 (s, 1H), 7.13 (s, 1H), 7.22-7.27 (m, 2H), 7.27-7.31 (m, 2H) IR (KBr) 3349, 1608, 1520, 1488, 1439, 1383, 1287, 1263, 1235, 1175, 999, 979 cm^{-1}
I-1208	mp 194-195 ℃ ^{1}H NMR (CDCl$_3$) δ 2.14 (s, 3H), 2.16 (s, 3H), 3.87 (s, 3H), 4.97 (s, 1H), 5.17 (AB q, J = 12.6 Hz, 2H), 6.74 (dd, J = 2.1, 8.1 Hz, 1H), 6.79 (d, J = 2.1 Hz, 1H), 6.88-6.93 (m, 2H), 6.93 (d, J = 8.1 Hz, 1H), 7.17-7.22 (m, 2H), 7.24 (s, 1H), 7.29-7.49 (m, 5H) IR (KBr) 3408, 1611, 1526, 1479, 1463, 1455, 1382, 1263, 1242, 1225, 1212, 1143, 997, 751 cm^{-1}

Table 239

I-1209	mp 183-184 ℃ ^{1}H NMR ($CDCl_3$) δ 2.03 (s, 3H), 2.07 (s, 3H), 3.19 (s, 3H), 3.80 (br s, 2H), 3.89 (s, 3H), 5.21 (s, 2H), 6.63 (s, 1H), 6.77 (dd, J = 2.1, 8.1 Hz, 1H), 6.83 (d, J = 2.1 Hz, 1H), 7.02 (d, J = 8.1 Hz, 1H), 7.29-7.52 (m, 9H) IR (KBr) 3481, 3391, 1610, 1511, 1482, 1370, 1240, 1212, 1197, 1173, 1153, 1137, 1024, 1007, 870, 844 cm^{-1}
I-1210	mp 133-134 ℃ ^{1}H NMR ($CDCl_3$) δ 1.75 (s, 3H), 1.80 (s, 3H), 2.16 (s, 3H), 2.17 (s, 3H), 3.22 (s, 3H), 3.85 (s, 3H), 4.61 (d, J = 6.9 Hz, 2H), 5.55 (m, 1H), 6.74-6.79 (m, 2H), 6.92 (d, J = 8.7 Hz, 1H), 7.24 (s, 1H), 7.39 (s, 4H) IR (KBr) 1529, 1516, 1478, 1371, 1353, 1328, 1263, 1242, 1201, 1176, 1150, 975, 866, 846, 787 cm^{-1}
I-1211	mp 243-244 ℃ ^{1}H NMR (DMSO-d_6) δ 1.91 (s, 3H), 1.96 (s, 3H), 3.77 (s, 3H), 4.05 (br s, 2H), 5.12 (s, 2H), 6.40 (s, 1H), 6.71 (dd, J = 1.8, 8.1 Hz, 1H), 6.77-6.84 (m, 3H), 7.06-7.12 (m, 2H), 7.16 (d, J = 8.1 Hz, 1H), 7.32-7.52 (m, 5H), 9.38 (s, 1H) IR (KBr) 3378, 3289, 1609, 1586, 1518, 1483, 1454, 1402, 1267, 1236, 1207, 1171, 1136, 1024, 853, 835, 816, 753, 730, 695 cm^{-1}
I-1212	mp 195-196 ℃ ^{1}H NMR ($CDCl_3$) δ 1.75 (s, 3H), 1.79 (s, 3H), 2.15 (s, 3H), 2.16 (s, 3H), 3.85 (s, 3H), 4.61 (d, J = 6.9 Hz, 2H), 4.97 (s, 1H), 5.55 (m, 1H), 6.76-6.79 (m, 2H), 6.89-6.94 (m, 3H), 7.18-7.23 (m, 2H), 7.24 (s, 1H) IR (KBr) 3462, 1611, 1519, 1479, 1459, 1431, 1379, 1271, 1240, 1228, 1211, 1137, 983, 835 cm^{-1}
I-1213	IR (KBr) 3275, 1494, 1462, 1444, 1387, 1371, 1232, 1212, 1183, 1141 cm^{-1}
I-124	mp 106-108 ℃ ^{1}H NMR ($CDCl_3$) δ 2.24 (s, 3H), 3.79 (s, 3H), 4.72 (br, 1H), 5.20 (s, 2H), 6.72-7.18 (m, 8H), 7.36-7.50 (m, 6H) IR ($CHCl_3$) 3596, 1610, 1523, 1493, 1465, 1455, 1388, 1318, 1298, 1262, 1173, 1127, 1038, 834 cm^{-1}

Table 240

I-1215	mp 108-110 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.25 (s, 3H), 3.79 (s, 3H), 4.63-4.65 (d, J = 7.2 Hz, 2H), 5.56 (s, 2H), 6.81 (s, 1H), 6.87-7.18 (m, 6H), 7.44-7.47 (m, 2H) IR ($CHCl_3$) 3596, 2937, 1610, 1523, 1493, 1465, 1446, 1387, 1297, 1261, 1173, 1125, 1038, 993, 834 cm^{-1}
I-1216	mp 121-122 ℃ ^{1}H NMR ($CDCl_3$) δ 2.24 (s, 3H), 3.79 (s, 3H), 4.78-4.80 (d, J = 6.9 Hz, 2H), 6.24 (t, J = 6.9 Hz, 1H), 6.80 (s, 1H), 6.87-7.19 (m, 6H), 7.43-7.48 (m, 2H) IR ($CHCl_3$) 3596, 1612, 1523, 1493, 1464, 1389, 1300, 1259, 1173, 1127, 1038, 886, 834 cm^{-1}
I-1217	mp 163-165 ℃ ^{1}H NMR ($CDCl_3$) δ 2.26 (s, 3H), 2.28 (s, 3H), 4.78 (br s, 1H), 4.78 (d, J =6.5 Hz, 2H), 5.60 (s, 1H) 6.23 (t, J =6.5 Hz, 1H), 6.83-6.92 (m, 4H), 6.99 (d, J =2.1 Hz, 1H), 7.10 (s, 1H), 7.11 (s, 1H), 7.22-7.27 (m, 2H) IR ($CHCl_3$) 3597, 3548, 3027, 3010, 1613, 1588, 1522, 1490, 1218, 1208, 1171 cm^{-1}
I-1218	foam ^{1}H NMR ($CDCl_3$) δ 2.37 (s, 3H), 3.39 (s, 3H), 3.73 (s, 3H), 5.15 (s, 2H), 5.68 (s, 1H), 5.92 (s, 1H), 6.46 (s, 1H), 6.71 (dd, J = 3.7, 0.7 Hz, 1H), 6.96 (dd, J = 8.4, 2.1 Hz, 1H), 7.03 (d, J = 8.4 Hz, 1H), 7.09 (d, J = 2.1 Hz, 1H), 7.26 (dd, J = 8.6, 0.7 Hz, 2H), 7.37-7.45 (m, 5H), 7.60 (dd, J = 8.7, 1.5 Hz, 1H), 7.61 (d, J = 3.7 Hz, 1H), 7.78 (d, J = 1.5 Hz, 1H), 7.82 (d, J = 8.6 Hz, 1H), 8.05 (d, J = 8.7 Hz, 1H) IR (KBr) 3476, 1457, 1371, 1254, 1107, 1131, 1107, 1011, 814, 685, 581 cm^{-1}
I-1219	mp 217-219 ℃ ^{1}H NMR ($CDCl_3$) δ 2.37 (s, 3H), 2.69 (s, 3H), 3.12 (s, 3H), 3.47 (s, 3H), 3.76 (s, 3H), 5.18 (s, 2H), 6.71 (d, J = 3.8 Hz, 1H), 6.86 (s, 1H), 7.15 (d, J = 8.4 Hz, 1H), 7.26 (d, J = 8.7 Hz, 2H), 7.32-7.48 (m, 7H), 7.56 (dd, J = 8.7, 1.8 Hz, 1H), 7.61 (d, J = 3.8 Hz, 1H), 7.78 (d, J = 1.8 Hz, 1H), 7.82 (d, J = 8.7 Hz, 1H), 8.05 (d, J = 8.7 Hz, 1H) IR (KBr) 1366, 1174, 1079, 963, 814, 685, 586 cm^{-1}

Table 241

I-1220	mp 208-210 ℃ ^{1}H NMR ($CDCl_3$) δ 2.37 (s, 3H), 2.72 (s, 3H), 3.23 (s, 3H), 3.47 (s, 3H), 3.76 (s, 3H), 4.63 (d, J = 6.6 Hz, 2H), 5.49 (t, J = 6.6 Hz, 1H), 6.71 (d, J = 3.8 Hz, 1H), 6.86 (s, 1H), 7.09 (d, J = 8.4 Hz, 1H), 7.26 (d, J = 8.3 Hz, 2H), 7.35 (dd, J = 8.4, 2.1 Hz, 1H), 7.40 (d, J = 2.1 Hz, 1H), 7.56 (dd, J = 8.4, 1.7 Hz, 1H), 7.61 (d, J = 3.8 Hz, 1H), 7.78 (d, J = 1.7 Hz, 1H), 7.82 (d, J = 8.3 Hz, 2H), 8.05 (d, J = 8.7 Hz, 1H) IR(KBr) 1466, 1445, 1365, 1174, 1116, 1079, 964, 812, 686, 584 cm^{-1}
I-1221	mp 203-205 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.39 (s, 3H), 2.69 (s, 3H), 2.97 (t, J = 8.6 Hz, 2H), 3.23 (s, 3H), 3.50 (s, 3H), 3.77 (s, 3H), 3.98 (t, J = 8.6 Hz, 2H), 4.63 (d, J = 6.6 Hz, 2H), 5.49 (t, J = 6.6 Hz, 1H), 6.80 (s, 1H), 7.08 (d, J = 8.5 Hz, 1H), 7.24-7.28 (m, 2H), 7.33 (dd, J = 8.5, 2.0 Hz, 1H), 7.37-7.39 (m, 2H), 7.41-7.45 (m, 1H), 7.71 (d, J = 8.4 Hz, 1H), 7.73 (d, J = 8.1 Hz, 2H) IR (KBr) 1474, 1362, 1241, 1166, 1079, 975, 808 cm^{-1}
I-1222	amorphous ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.82 (s, 3H), 2.39 (s, 3H), 2.98 (t, J = 8.4 Hz, 2H), 3.43 (s, 3H), 3.73 (s, 3H), 3.98 (t, J = 8.4 Hz, 2H), 4.61 (d, J = 6.6 Hz, 2H), 5.53 (t, J = 6.6 Hz, 1H), 5.68 (s, 1H), 5.86 (s, 1H), 6.40 (s, 1H), 6.93-6.95 (m, 2H), 7.03-7.05 (m, 1H), 7.23-7.27 (m, 2H), 7.35-7.37 (m, 1H), 7.45-7.50 (m, 1H), 7.71 (d, J = 8.4 Hz, 1H), 7.74 (d, J = 8.4 Hz, 2H) IR (KBr) 3457, 1480, 1354, 1244, 1164, 1099, 978, 817 cm^{-1}
I-1223	mp 199-201 ℃ ^{1}H NMR ($CDCl_3$) δ 3.19 (s, 3H), 3.72 (s, 3H), 3.90 (s, 3H), 4.20-4.27 (m, 4H), 5.20 (s, 2H), 6.53 (s, 1H), 6.90-6.99 (m, 3H), 7.25-7.65 (m, 9H) IR (KBr) 3434, 2938, 1604, 1586, 1522, 1484, 1465, 1432, 1368, 1339, 1326, 1249, 1226, 1203, 1174, 1146, 1136, 1106, 1027 cm^{-1}

Table 242

I-1224	mp 127-129 ℃ ^{1}H NMR ($CDCl_3$) δ 1.57 (s, 3H), 1.65 (s, 3H), 1.76 (s, 3H), 1.82 (s, 3H), 3.46 (s, 3H), 3.64 (m, 2H), 3.76 (s, 3H), 4.30 (t, J = 5.7 Hz, 1H), 4.62 (d, J = 6.9 Hz, 2H), 5.10 (m, 1H), 5.53 (m, 1H), 5.72 (s, 1H), 5.85 (s, 1H), 6.47 (s, 1H), 6.93 (dd, J = 1.8, 8.4 Hz, 1H), 6.98 (d, J = 8.4 Hz, 1H), 7.05 (d, J = 1.8 Hz, 1H), 7.88 (ABq, J = 8.7 Hz, 4H) IR (KBr) 3478, 3314, 2937, 1585, 1556, 1518, 1501, 1484, 1460, 1417, 1387, 1363, 1328, 1279, 1243, 1228, 1191, 1155, 1129, 1113, 1090, 1068, 1013 cm^{-1}
I-1225	mp 162-164 ℃ ^{1}H NMR ($CDCl_3$) δ 3.19 (s, 3H), 3.72 (s, 3H), 4.19-4.23 (m, 4H), 5.18 (s, 2H), 6.52 (s, 1H), 7.03-7.64 (m, 12H) IR (KBr) 3433, 2933, 1523, 1483, 1463, 1435, 1377, 1360, 1269, 1227, 1172, 1149, 1126, 1096 cm^{-1}
I-1226	mp 188-190 ℃ ^{1}H NMR (DMSO) δ 1.72 (s, 3H), 1.75 (s, 3H), 3.33 (s, 3H), 3.67 (s, 3H), 4.55 (d, J = 6.9 Hz, 2H), 5.49 (m, 1H), 6.50 (s, 1H), 6.66 (dd, J = 2.1, 8.1 Hz, 1H), 6.74 (d, J = 2.1 Hz, 1H), 6.91 (d, J = 8.1 Hz, 1H), 7.42 (bs, 2H), 7.85 (ABq, J = 8.4 Hz, 4H), 8.75 (bs, 2H) IR (KBr) 3465, 2937, 1588, 1517, 1500, 1483, 1470, 1446, 1415, 1385, 1340, 1308, 1283, 1246, 1224, 1201, 1186, 1168, 1130, 1116, 1091, 1067, 1011 cm^{-1}
I-1227	mp 172-174 ℃ ^{1}H NMR ($CDCl_3$) δ 1.75 (s, 3H), 1.78 (s, 3H), 3.19 (s, 3H), 3.72 (s, 3H), 3.87 (s, 3H), 4.20-4.27 (m, 4H), 4.62 (d, J = 6.9 Hz, 2H), 5.57 (m, 1H), 6.54 (s, 1H), 6.96 (s, 3H), 7.49 (ABq, J = 8.7 Hz, 4H) IR (KBr) 3433, 2937, 1604, 1582, 1522, 1483, 1465, 1432, 1368, 1340, 1326, 1242, 1226, 1218, 1204, 1174, 1138, 1107 cm^{-1}

Table 243

I-1228	mp 169-175 ℃ ^{1}H NMR ($CDCl_3$) δ -0.07-0.02 (m, 2H), 0.34-0.42 (m, 2H), 0.98 (m, 1H), 2.44 (s, 3H), 3.20 (s, 3H), 3.47 (d, J = 7.2 Hz, 2H), 3.78 (s, 3H), 3.91 (s, 3H), 5.22 (s, 2H), 6.85 (s, 1H), 6.91 (dd, J = 1.8, 8.1 Hz, 1H), 6.976 (d, J = 1.8 Hz, 1H), 6.979 (d, J = 8.1 Hz, 1H), 7.26-7.73 (m, 9H) IR (KBr) 3447, 2934, 1604, 1518, 1480, 1390, 1362, 1240, 1227, 1175, 1140, 1081 cm^{-1}
I-1229	mp 172-174 ℃ ^{1}H NMR ($CDCl_3$) δ 1.74 (s, 3H), 1.78 (s, 3H), 3.71 (s, 3H), 3.87 (s, 3H), 4.20-4.25 (m, 4H), 4.62 (d, J = 6.3 Hz, 2H), 4.94 (bs, 1H), 5.57 (m, 1H), 6.55 (s, 1H), 6.89-7.50 (m, 7H) IR (KBr) 3410, 2933, 1611, 1522, 1484, 1462, 1422, 1371, 1264, 1238, 1224, 1173, 1134, 1103 cm^{-1}
I-1230	mp 149-151 ℃ ^{1}H NMR ($CDCl_3$) δ 1.75 (s, 3H), 1.81 (s, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 3.87 (s, 3H), 4.61 (d, J = 6.6 Hz, 2H), 5.54-5.58 (m, 1H), 5.69 (s, 1H), 5.91 (s, 1H), 6.46 (s, 1H), 6.93-7.06 (m, 5H), 7.58 (d, J = 8.7 Hz, 2H) IR (KBr) 3501, 2939, 1680, 1609, 1582, 1520, 1487, 1458, 1397, 1284, 1246, 1191, 1179, 1115, 1067, 1015, 940, 822, 794 cm^{-1}
I-1231	mp 151-152 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (d, J = 0.6 Hz, 3H), 1.81 (d, J = 0.6 Hz, 3H), 2.04 (s, 3H), 2.08 (s, 3H), 3.20 (s, 3H), 3.77 (br s, 2H), 3.86 (s, 3H), 4.65 (d, J = 6.6 Hz, 2H), 5.58 (m, 1H), 6.04 (s, 1H), 6.81 (dd, J = 2.1, 8.7 Hz, 1H), 6.81 (d, J = 2.1 Hz, 1H), 7.01 (d, J = 8.7 Hz, 1H), 7.30-7.36 (m, 2H), 7.38-7.43 (m, 2H) IR (KBr) 3484, 3393, 2934, 1608, 1511, 1482, 1371, 1239, 1213, 1197, 1173, 1153, 1138, 989, 973, 871, 844, 791 cm^{-1}

Table 244

I-1232	mp 198-199 ℃ ^{1}H NMR (DMSO-d_6) δ 1.72 (s, 3H), 1.77 (s, 3H), 1.91 (s, 3H), 1.95 (s, 3H), 3.75 (s, 3H), 4.04 (s, 2H), 4.55 (d, J = 6.9 Hz, 2H), 5.48 (m, 1H), 6.40 (s, 1H), 6.69 (dd, J = 1.8, 8.1 Hz, 1H), 6.75 (d, J = 1.8 Hz, 1H), 6.77-6.83 (m, 2H), 7.05-7.11 (m, 3H), 9.39 (s, 1H) IR (KBr) 3375, 3287, 2913, 1609, 1587, 1578, 1518, 1484, 1434, 1403, 1270, 1235, 1207, 1171, 1136, 1032, 1009, 863, 853, 816, 749 cm^{-1}
I-1233	mp 198-199 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.80 (s, 3H), 1.91 (s, 3H), 2.11 (s, 3H), 2.13 (s, 3H), 3.20 (s, 3H), 3.84 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.58 (m, 1H), 6.46 (s, 1H), 6.69-6.74 (m, 2H), 6.96 (d, J = 8.4 Hz, 1H), 7.11 (s, 1H), 7.32-7.38 (m, 2H), 7.40-7.46 (m, 2H) IR (KBr) 1651, 1513, 1470, 1448, 1414, 1368, 1330, 1267, 1241, 1214, 1199, 1175, 970, 869 cm^{-1}
I-1232	mp 193-194 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.80 (d, J = 0.6 Hz, 3H), 1.94 (s, 3H), 2.11 (s, 3H), 2.13 (s, 3H), 3.84 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.58 (m, 1H), 6.58 (s, 1H), 6.70-6.75 (m, 2H), 6.85-6.93 (m, 2H), 6.96 (d, J = 8.4 Hz, 1H), 7.13 (s, 1H), 7.19-7.24 (m, 2H) IR (KBr) 3271, 1654, 1611, 1517, 1467, 1448, 1370, 1289, 1262, 1240, 1213, 1177, 1136, 835 cm^{-1}
I-1235	mp 114-115 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.27 (s, 6H), 3.91 (s, 3H), 4.63 (d, J = 6.6 Hz, 2H), 5.56 (m, 1H), 5.61 (s, 1H), 6.86 (dd, J = 2.1, 8.4 Hz, 1H), 6.86 (d, J = 2.1 Hz, 1H), 6.97 (d, J = 8.4 Hz, 1H), 7.02-7.14 (m, 5H) IR (KBr) 3410, 1597, 1521, 1470, 1449, 1415, 1382, 1297, 1276, 1261, 1220, 1122, 1052, 983, 862 cm^{-1}

Table 245

I-1236	powder ^1H NMR ($CDCl_3$) δ 3.22 (s, 3H), 3.38 (s, 3H), 3.46 (s, 3H), 3.92 (s, 3H), 5.22 (s, 2H), 5.76 (s, 1H), 6.97-7.09 (m, 3H), 7.32-7.51 (m, 9H) IR (KBr) 3448, 2935, 1516, 1455, 1394, 1366, 1352, 1246, 1148, 1076, 1015, 972, 881, 699, 541, 524 cm^{-1}
I-1237	mp 169-172 ℃ ^1H NMR ($CDCl_3$) δ 2.49 (s, 3H), 3.21 (s, 3H), 3.47 (s, 3H), 3.50 (s, 3H), 3.92 (s, 3H), 5.23 (s, 2H), 6.95-7.04 (m, 3H), 7.31-7.49 (m, 9H) IR (KBr) 3009, 2932, 1518, 1459, 1370, 1362, 1250, 1176, 1151, 872, 809, 542, 527 cm^{-1}
I-1238	mp 182-184 ℃ ^1H NMR ($CDCl_3$) δ 2.67 (s, 3H), 3.21 (s, 3H), 3.48 (s, 3H), 3.50 (s, 3H), 3.93 (s, 3H), 5.77 (s, 1H), 6.98-7.06 (m, 3H), 7.38-7.51 (m, 4H) IR (KBr) 3548, 3502, 2938, 1602, 1519, 1389, 1364, 1176, 1159, 1012, 963, 875, 521 cm^{-1}
I-1239	mp 132-135 ℃ ^1H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.80 (s, 3H), 2.62 (s, 3H), 3.21 (s, 3H), 3.48 (s, 3H), 3.51 (s, 3H), 3.90 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.51-5.58 (m, 1H), 6.97-7.04 (m, 3H), 7.37-7.51 (m, 4H) IR (KBr) 2936, 1518, 1464, 1375, 1362, 1246, 1175, 1153, 1013, 968, 872, 805, 529 cm^{-1}
I-1240	mp 169-172 ℃ ^1H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.80 (s, 3H), 3.38 (s, 3H), 3.47 (s, 3H), 3.89 (s, 3H), 4.65 (d, J = 6.6 Hz, 2H), 5.06 (s, 1H), 5.54-5.61 (m, 1H), 5.83 (s, 1H), 6.92-7.00 (m, 3H), 7.05-7.09 (m, 2H), 7.28-7.33 (m, 2H) IR (KBr) 3458, 2935, 1611, 1520, 1458, 1392, 1244, 1222, 1015, 828, 803 cm^{-1}

Table 246

I-1241	mp 170-173 ℃ ^{1}H NMR ($CDCl_3$) δ 1.73 (s, 3H), 1.79 (s, 3H), 2.55-3.00 (m, 3H), 3.21 (s, 3H), 3.22-3.80 (m, 6H), 4.55-4.63 (m, 2H), 5.41-5.47 (m, 1H), 6.83 (s, 1H), 7.03-7.70 (m, 8H) IR (KBr) 2938, 1686, 1516, 1481, 1378, 1235, 1235, 1179, 1152, 1081, 847, 799, 675, 527 cm^{-1}
I-1242	mp 117-118 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H)1.81 (d, J =0.6 Hz, 3H), 2.11 (s, 3H), 2.19 (s, 3H), 3.38 (s, 3H), 4.64 (d, J =6.9 Hz, 2H), 4.75 (br s, 1H), 5.54-5.90 (m, 1H), 6.86-6.91 (m, 2H), 6.93 (s, 1H), 7.10-7.69 (m, 3H), 7.20-7.25 (m, 2H) IR ($CHCl_3$) 3596, 3010, 2934, 1675, 1519, 1473, 1262, 1172, 1098 cm^{-1}
I-1243	foam ^{1}H NMR ($CDCl_3$) δ 3.43 (s, 3H), 3.72 (s, 3H), 5.03 (s, 2H), 6.43 (s, 1H), 6.93 (dd, J = 8.4, 2.1 Hz, 1H), 6.94 (d, J = 8.7 Hz, 2H), 7.09 (d, J = 2.1 Hz, 1H), 7.11 (d, J = 8.4 Hz, 1H), 7.29 (ddd, J = 7.8, 4.8, 1.5 Hz, 1H), 7.49 (brd, J = 7.8 Hz, 1H), 7.53 (d, J = 8.7 Hz, 2H), 7.70 (ddd, J = 7.8, 7.8, 1.5 Hz, 1H), 8.61 (brd, J = 4.8 Hz, 1H) IR (KBr) 3432, 1611, 1588, 1562, 1523, 1488, 1467, 1226, 1114, 1071, 1015, 939, 824, 778, 758 cm^{-1}
I-1244	foam ^{1}H NMR ($CDCl_3$) δ 3.45 (s, 3H), 3.75 (s, 3H), 5.01 (s, 2H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.99 (dd, J = 8.4, 2.1 Hz, 1H), 7.10 (d, J = 2.1 Hz, 1H), 7.14 (d, J = 8.4 Hz, 1H), 7.30 ～ 7.36 (m, 3H), 7.46 ～ 7.49 (m, 2H), 7.54 (d, J = 8.7 Hz, 2H) IR (KBr) 3433, 1612, 1589, 1523, 1489, 1403, 1224, 1192, 1113, 1070, 1013, 938, 813, 758 cm^{-1}
I-1245	foam ^{1}H NMR ($CDCl_3$) δ 3.45 (s, 3H), 3.75 (s, 3H), 5.01 (s, 2H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.99 (dd, J = 5.1, 3.6 Hz, 1H), 6.99 (dd, J = 8.4, 2.1 Hz, 1H), 7.10 (d, J = 2.1 Hz, 1H), 7.11 (d, J = 8.4 Hz, 1H), 7.27 (dd, J = 3.6, 1.0 Hz, 1H), 7.29 (dd, J = 5.1, 1.0 Hz, 1H), 7.54 (d, J = 8.7 Hz, 2H) IR (KBr) 3433, 1612, 1589, 1523, 1488, 1403, 1241, 1224, 1192, 1113, 1070, 1011, 826 cm^{-1}

Table 247

I-1246	foam ^{1}H NMR ($CDCl_3$) δ 3.45 (s, 3H), 3.75 (s, 3H), 4.93 (s, 2H), 5.70 (d, J = 1.5 Hz, 1H), 5.75 (d, J = 1.5 Hz, 1H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.99 (dd, J = 8.4, 2.1 Hz, 1H), 7.05 (d, J = 8.4 Hz, 1H), 7.10 (d, J = 2.1 Hz, 1H), 7.54 (d, J = 8.7 Hz, 2H) IR (KBr) 3432, 1611, 1590, 1523, 1489, 1403, 1224, 1193, 1113, 1071, 1010, 938, 826 cm^{-1}
I-1247	foam ^{1}H NMR ($CDCl_3$) δ 3.45 (s, 3H), 3.75 (s, 3H), 5.53 (d, J = 10.5 Hz, 1H), 5.69 (d, J = 16.5 Hz, 1H), 6.11 (ddd, J = 16.5, 10.5, 6.3 Hz, 1H), 6.44 (d, J = 6.3 Hz, 1H), 6.45 (s, 1H), 6.88 (d, J = 8.4 Hz, 1H), 6.91 ～ 6.93 (m, 2H), 6.92 (d, J = 8.7 Hz, 2H), 7.53 (d, J = 8.7 Hz, 2H) IR (KBr) 3433, 1611, 1592, 1522, 1485, 1403, 1226, 1106, 1059, 814 cm^{-1}
I-1248	foam ^{1}H NMR ($CDCl_3$) δ 1.16 (t, J = 7.5 Hz, 3H), 2.26 (tq, J = 2.1, 7.5 Hz, 2H), 3.45 (s, 3H), 3.75 (s, 3H), 4.76 (t, J = 2.1 Hz, 2H), 6.45 (s, 1H), 6.91 (d, J = 8.7 Hz, 2H), 6.96 (dd, J = 2.1, 8.4 Hz, 1H), 7.06 (d, J = 8.4 Hz, 1H), 7.07 (d, J = 2.1 Hz, 1H), 7.53 (d, J = 8.7 Hz, 2H) IR (KBr) 3434, 2230, 1612, 1590, 1523, 1479, 1225, 1113, 1070, 1005, 938, 815 cm^{-1}
I-1249	foam ^{1}H NMR ($CDCl_3$) δ 3.38 (s, 3H), 3.67 (s, 3H), 5.12 (s, 2H), 6.43 (s, 1H), 6.56 (d, J = 3.3 Hz, 1H), 6.79 (dd, J = 2.1, 8.1 Hz, 1H), 6.84 (d, J = 8.7 Hz, 2H), 6.87 (d, J = 2.1 Hz, 1H), 7.02 (d, J = 3.3 Hz, 1H), 7.02 (d, J = 8.1 Hz, 1H), 7.45 (d, J = 8.7 Hz, 2H) IR (KBr) 3431, 1698, 1611, 1523, 1489, 1405, 1246, 1114, 1071, 1012, 816, 786 cm^{-1}
I-1250	^{1}H NMR ($CDCl_3$) δ 3.38 (s, 3H), 3.67 (s, 3H), 4.66 (tt, J = 2.7, 6.9 Hz, 2H), 4.90 (tt, J = 2.7, 6.9 Hz, 2H), 5.43 (tt, J = 6.9, 6.9 Hz, 1H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.96 (br.s, 2H), 7.07 (s, 1H), 7.53 (d, J = 8.7 Hz, 2H) IR (KBr) 3430, 1955, 1612, 1589, 1522, 1489, 1404, 1248, 1113, 1070, 1008, 938, 845, 825 cm^{-1}

Table 248

I-1251	foam ^1H NMR ($CDCl_3$) δ 1.69 (dd, J = 3.3, 6.9 Hz, 3H), 3.46 (s, 3H), 3.74 (s, 3H), 4.63 (dd, J = 2.4, 6.3 Hz, 2H), 5.28 (m, 1H), 5.33 (m, 1H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.95 (d, J = 1.5 Hz, 1H), 6.96 (br.s, 1H), 7.06 (d, J = 1.5 Hz, 1H), 7.52 (d, J = 8.7 Hz, 2H) IR (KBr) 3436, 2933, 1968, 1612, 1587, 1523, 1489, 1464, 1404, 1112, 1071, 1011, 998, 824 cm^{-1}
I-1252	foam ^1H NMR ($CDCl_3$) δ 1.02 (t, J = 7.2 Hz, 3H), 2.05 (ddq, J = 3.3, 6.3, 7.2 Hz, 2H), 3.46 (s, 3H), 3.74 (s, 3H), 4.64 (dd, J = 2.4, 6.0 Hz, 2H), 5.40 (m, 2H), 6.45 (s, 1H), 6.91 (d, J = 8.7 Hz, 2H), 6.94 (d, J = 2.1, 8.4 Hz, 1H), 6.97 (d, J = 8.4 Hz, 1H), 7.06 (d, J = 2.1 Hz, 1H), 7.54 (d, J = 8.7 Hz, 2H) IR (KBr) 3479, 2960, 2933, 1964, 1612, 1582, 1522, 1489, 1403, 1242, 1113, 1072, 1011, 999, 944, 872 cm^{-1}
I-1253	foam ^1H NMR ($CDCl_3$) δ 1.03 (d, J = 6.6 Hz, 6H), 2.34 (m, 1H), 3.46 (s, 3H), 3.74 (s, 3H), 4.63 (dd, J = 2.7, 6.3 Hz, 2H), 5.33 (m, 1H), 5.44 (m, 1H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.93 (d, J = 1.8, 7.8 Hz, 1H), 6.97 (d, J = 7.8 Hz, 1H), 7.06 (d, J = 1.8 Hz, 1H), 7.53 (d, J = 8.7 Hz, 2H) IR (KBr) 3434, 2958, 1960, 1612, 1589, 1523, 1489, 1226, 1113, 1071, 1011, 939, 825 cm^{-1}
I-124	foam ^1H NMR ($CDCl_3$) δ 2.62 (d, J = 2.4 Hz, 1H), 3.45 (s, 3H), 3.75 (s, 3H), 4.18 (dd, J = 7.2, 11.4 Hz, 1H), 4.38 (dd, J = 2.4, 11.4 Hz, 1H), 4.94 (ddd, J = 2.4, 2.4, 7.2 Hz, 1H), 6.44 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.98 (d, J = 8.4 Hz, 1H), 7.01 (d, J = 1.8, 8.4 Hz, 1H), 7.08 (d, J = 1.8 Hz, 1H), 7.52 (d, J = 8.7 Hz, 2H) IR (KBr) 3434, 3283, 2127, 1612, 1586, 15323, 1487, 1226, 1115, 1069, 1007, 943, 825 cm^{-1}

Table 251

I-1265	mp85-86 ℃ ^{1}H NMR ($CDCl_3$) δ 2.85 (s, 3H), 3.32 (s, 3H), 3.82 (s, 3H), 3.96 (s, 3H), 5.38 (s, 2H), 7.04 (s, 1H), 7.22 (s, 1H), 7.25 (d, J = 8.4 Hz, 1H), 7.35 (d, J = 8.4 Hz, 1H), 7.48-7.67 (m, 7H), 8.45 (brs, 1H) IR(KBr) 3432, 2938, 1740, 1608, 1517, 1483, 1396, 1366, 1271, 1179, 1111, 1080, 832, 810, 698 cm^{-1}
I-1266	mp79-80 ℃ ^{1}H NMR ($CDCl_3$) δ 2.14 (s, 3H), 3.50 (s, 3H), 4.95 (brs, 1H), 5.22 (s, 2H), 5.88 (brs, 1H), 6.81 (s, 1H), 6.94 (d, J = 8.1 Hz, 2H), 7.02-7.14 (m, 3H), 7.37-7.56 (m, 7H) IR(KBr) 3409, 2933, 1612, 1522, 1488, 1454, 1400, 1266, 1229, 1199, 1162, 1007, 834, 696 cm^{-1}
I-1267	mp87-88 ℃ ^{1}H NMR ($CDCl_3$) δ 2.13 (s, 3H), 2.59 (s, 3H), 3.20 (s, 3H), 3.55 (s, 3H), 5.22 (s, 2H), 6.99-7.17 (m, 5H), 7.34-7.48 (m, 6H), 7.67 (d, J = 8.4 Hz, 2H) IR(KBr) 3428, 2931, 1612, 1522, 1488, 1454, 1400, 1266, 1230, 1163, 1007, 835 cm^{-1}
I-1268	mp76-77 ℃ ^{1}H NMR ($CDCl_3$) δ 1.72 (s, 3H), 1.77 (s, 6H), 1.81 (s, 3H), 2.69 (s, 3H), 3.24 (s, 3H), 3.61 (s, 3H), 3.79 (s, 3H), 4.12-4.20 (m, 1H), 4.55-4.61 (m, 1H), 4.64 (d, J = 6.6 Hz, 2H), 5.25 (t, J = 7.5 Hz, 1H), 5.50 (t, J = 6.4 Hz, 1H), 6.85 (s, 1H), 7.05-7.11 (m, 2H), 7.34-7.40 (m, 3H) IR(KBr) 3423, 2939, 1707, 1521, 1484, 1367, 1241, 1178, 1079, 1034, 972, 799, 521 cm^{-1}
I-1269	mp73-74 ℃ ^{1}H NMR ($CDCl_3$) δ 2.17 (s, 3H), 2.28 (s, 3H), 5.16 (s, 2H), 5.71 (brs, 1H), 6.83 (d, J = 8.1 Hz, 1H), 6.97-7.00 (m, 2H), 7.08 (s, 1H), 7.15 (s, 1H), 7.32-7.33 (m, 2H), 7.36-7.45 (m, 5H), 7.60 (d, J = 10.5 Hz, 1H), 8.05 (brs, 1H) IR(KBr) 3410, 2923, 1718, 1606, 1540, 1521, 1489, 1424, 1282, 1179, 976, 728 cm^{-1}

Table 252

I-1270	mp65-67 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.14 (s, 3H), 2.72 (s, 3H), 3.20 (s, 3H), 3.56 (s, 3H), 4.64 (d, J = 6.9 Hz, 2H), 5.53 (t, J = 6.6 Hz, 1H), 7.01-7.11 (m, 3H), 7.18 (s, 1H), 7.37 (d, J = 8.7 Hz, 2H), 7.67 (d, J = 8.7 Hz, 2H), . IR(KBr) 3434, 2938, 1519, 1478, 1365, 1267, 1176, 1151, 968, 871, 799, 524 cm^{-1}
I-1271	mp99-100 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 6H), 1.79 (s, 3H), 1.81 (s, 3H), 3.52 (s, 3H), 3.72 (s, 3H), 4.61 (d, J = 7.2 Hz, 2H), 5.36 (t, J = 6.6 Hz, 1H), 5.53 (t, J = 5.7 Hz, 1H), 5.69 (brs, 1H), 5.81 (brs, 1H), 6.43 (s, 1H), 6.46-6.52 (m, 1H), 6.95 (s, 2H), 7.05 (s, 1H), 7.10-7.16 (m, 1H) IR(KBr) 3496, 3407, 2933, 1638, 1535, 1493, 1098, 1000 cm^{-1}
I-1272	mp75-76 ℃ ^{1}H NMR ($CDCl_3$) δ 2.17 (s, 3H), 2.28 (s, 3H), 3.12 (s, 3H), 5.18 (s, 2H), 7.09-7.14 (m, 4H), 7.26-7.47 (m, 8H),7.61 (d, J = 11.4 Hz, 1H), 8.00 (brs, 1H) IR(KBr) 3330, 2927, 1731, 1607, 1541, 1521, 1488, 1364, 1290, 1169, 1105, 975, 878, 811 cm^{-1}
I-1273	mp112-113 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.11 (s, 3H), 3.47 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 4.83 (brs, 1H), 5.56 (t, J = 7.2 Hz, 1H), 5.84 (brs, 1H), 6.78 (s, 1H), 6.91 (d, J = 8.7 Hz, 2H), 7.02-7.10 (m, 3H), 751 (d, J = 8.4 Hz, 2H), . IR(KBr) 3498, 2978, 1613, 1522, 1487, 1453, 1302, 1204, 1232, 1196, 987, 812 cm^{-1}
I-1274	oil ^{1}H NMR ($CDCl_3$) δ 1.73 (s, 3H), 1.76 (s, 3H), 1.77 (s, 3H), 1.79 (s, 3H), 2.22 (s, 3H), 2.27 (s, 3H), 3.73 (d, J = 6.0 Hz, 2H), 3.88 (s, 3H), 4.63 (d, J = 6.6 Hz, 2H), 5.36 (t, J = 6.0 Hz, 1H), 5.57 (t, J = 6.6 Hz, 1H), 6.40-6.51 (m, 2H), 6.87-6.95 (m, 3H), 7.05-7.14 (m, 3H) IR($CHCl_3$) 3021, 2934, 1628, 1523, 1492, 1235, 1219, 1139 cm^{-1}

Table 253

I-1275	mp64-65 ℃ ^{1}H NMR ($CDCl_3$) δ 1.74 (s, 3H), 1.77 (s, 6H), 1.82 (s, 3H), 2.16 (s, 3H), 2.29 (s, 3H), 3.23 (s, 3H), 4.36 (d, J = 7.5 Hz, 2H), 4.64 (d, J = 6.3 Hz, 2H), 5.28 (t, J = 8.4 Hz, 1H), 5.51 (t, J = 6.3 Hz, 1H), 7.01-7.16 (m, 6H), 7.24-7.35 (m, 2H) IR(KBr) 3422, 2926, 1698, 1519, 1489, 1367, 1209, 1170, 962, 807 cm^{-1}
I-1276	oil ^{1}H NMR ($CDCl_3$) δ 2.21 (s, 3H), 2.26 (s, 3H), 3.95 (d, J = 6.6 Hz, 2H), 4.28 (brs, 1H), 4.78 (d, J = 6.0 Hz, 2H), 6.05 (t, J = 6.3 Hz, 1H), 6.24 (t, J = 6.3 Hz, 1H), 6.36-6.49 (m, 2H), 6.97-7.15 (m, 6H) IR($CHCl_3$) 3446, 3009, 1628, 1525, 1492, 1274, 1224, 1130, 883 cm^{-1}
I-1277	mp64-65 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.80 (s, 6H), 1.85 (s, 3H), 2.23 (s, 3H), 2.30 (s, 3H), 3.74 (d, J = 6.3 Hz, 2H), 4.64 (d, J = 6.0 Hz, 2H), 5.38 (t, J = 6.6 Hz, 1H), 5.55 (t, J = 6.9 Hz, 1H), 5.73 (brs, 1H), 6.41-6.50 (m, 2H), 6.84-7.15 (m, 6H) IR(KBr) 3354, 2971, 1627, 1522, 1490, 1274, 1200, 1128, 990, 843 cm^{-1}
I-1278	mp 153-154 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 1.95 (s, 12H), 4.64 (d, J = 6.9 Hz, 2H), 4.78 (s, 1H), 5.57 (t, J = 6.9 Hz, 1H), 6.85 (ddd, J = 8.3, 2.1, 1.2 Hz, 1H), 6.90 (d, J = 8.6 Hz, 2H), 6.92 (dd, J = 12.0, 2.1 Hz, 1H), 7.04 (d, J = 8.6 Hz, 2H), 7.04 (t, J = 8.3 Hz, 1H), IR (KBr) 3433, 1514, 1293, 1262, 1242, 1112, 984 cm^{-1}
I-1279	mp 115-117 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.81 (s, 3H), 2.23 (s, 3H), 3.21 (s, 3H), 3.81 (s, 3H), 4.63 (d, J = 6.6 Hz, 2H), 5.55 (t, J = 6.6 Hz, 1H), 6.81 (s, 1H), 7.02 (t, J = 8.6 Hz, 1H), 7.20 (s, 1H), 7.24-7.28 (m, 1H), 7.33-7.44 (m, 3H) IR (KBr) 3434, 1522, 1492, 1337, 1218, 1200, 1148, 979, 876 cm^{-1}

Table 254

I-1280	mp 88-90 ℃ ^{1}H NMR (CDCl$_3$) δ 1.76 (s, 3H), 1.80 (s, 3H), 2.24 (s, 3H), 3.80 (s, 3H), 4.63 (d, J = 6.7 Hz, 2H), 4.88 (br s, 1H), 5.55 (t, J = 6.7 Hz, 1H), 6.83 (s, 1H), 6.90 (d, J = 8.7 Hz, 2H), 7.01 (t, J = 8.6 Hz, 1H), 7.18 (s, 1H), 7.24-7.28 (m, 3H), 7.36 (dd, J = 12.9, 2.1 Hz, 1H) IR (KBr) 3400, 1523, 1493, 1263, 1217, 1128, 977, 836 cm^{-1}
I-1281	mp 158-159 ℃ ^{1}H NMR (CDCl$_3$) δ 1.76 (s, 3H), 1.80 (d, J = 0.3 Hz, 3H), 2.10 (s, 3H), 2.34 (s, 3H), 2.50 (s, 3H), 3.87 (s, 3H), 4.63 (d, J = 6.9 Hz, 2H), 5.14 (s, 1H), 5.55 (m, 1H), 5.88 (s, 1H), 6.77-6.82 (m, 2H), 6.85-6.91 (m, 2H), 6.98 (d, J = 8.1 Hz, 1H), 7.13 (s, 1H), 7.18-7.24 (m, 2H) IR (KBr) 3465, 1610, 1516, 1473, 1382, 1322, 1307, 1266, 1240, 1213, 1179, 1168, 1147, 1100, 982, 836 cm^{-1}
I-1282	mp 85-86 ℃ ^{1}H NMR (CDCl$_3$) δ 0.99 (d, J = 6.2 Hz, 6H), 1.71-1.98 (m, 3H), 2.27 (s, 3H), 2.29 (s, 3H), 3.20 (s, 3H), 3.88 (s, 3H), 4.10 (t, J = 6.8 Hz, 2H), 6.88 (dd, J = 2.0, 8.6 Hz, 1H), 6.88 (d, J = 2.0 Hz, 1H), 6.95 (d, J = 8.6 Hz, 1H), 7.30-7.46 (m, 4H) IR (KBr) 1519, 1488, 1375, 1255, 1243, 1214, 1204, 1173, 1154, 1134, 867, 850, 792 cm^{-1}
I-1283	mp 117-118 ℃ ^{1}H NMR (CDCl$_3$) δ 0.99 (d, J = 6.3 Hz, 6H), 1.75-1.94 (m, 3H), 2.27 (s, 3H), 2.28 (s, 3H), 3.88 (s, 3H), 4.10 (t, J = 6.6 Hz, 2H), 4.91 (s, 1H), 6.86-6.91 (m, 4H), 6.94 (d, J = 8.7 Hz, 1H), 7.12 (s, 1H), 7.15 (s, 1H), 7.22-7.27 (m, 2H) IR (KBr) 3438, 1611, 1522, 1490, 1475, 1464, 1446, 1256, 1242, 1212, 1180, 1171, 1137, 1032, 834, 818 cm^{-1}
I-1284	mp 156-157 ℃ ^{1}H NMR (CDCl$_3$) δ 3.46 (s, 3H), 3.76 (s, 3H), 3.89 (s, 3H), 4.78 (d, J = 6.3 Hz, 2H), 4.99 (s, 1H), 5.96 (s, 1H), 6.25 (t, J = 6.3 Hz, 1H), 6.47 (s, 1H), 6.90-6.95 (m, 2H), 6.93 (d, J = 7.8 Hz, 1H), 7.04 (dd, J =2.1, 7.8 Hz, 1H), 7.04 (d, J = 2.1 Hz, 1H), 7.51-7.57 (m, 2H) IR (KBr) 3455, 1612, 1522, 1487, 1456, 1396, 1269, 1234, 1223, 1209, 1173, 1140, 1115, 1024, 885, 825, 813 cm^{-1}

Table 255

I-1285	mp 84-85 ℃ ^{1}H NMR ($CDCl_3$) δ 1.00 (d, J = 6.6 Hz, 6H), 1.71-1.96 (m, 3H), 2.27 (s, 6H), 4.11 (t, J = 6.9 Hz, 2H), 4.80 (br s, 1H), 6.86-6.92 (m, 2H), 6.97-7.14 (m, 5H), 7.22-7.27 (m, 2H) IR (KBr) 3389, 1523, 1491, 1476, 1427, 1301, 1276, 1233, 1196, 1168, 1126, 836, 815 cm^{-1}
I-1286	mp 152-153 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.80 (d, J =0.6 Hz, 3H), 2.12 (s, 3H), 2.20 (s, 3H), 3.39 (s, 3H), 3.87 (s, 3H), 4.64 (d, J =6.3 Hz, 2H), 4.79 (br s, 1H), 5.56-5.61 (m, 1H), 6.82-6.97 (m, 6H), 7.21-7.26 (m, 2H) IR ($CHCl_3$) 3596, 3440, 3011, 2935, 1676, 1612, 1588, 1518, 1473, 1449, 1259, 1238, 1173 cm^{-1}
I-1287	mp 123-125 ℃ ^{1}H NMR ($CDCl_3$) δ -0.01-0.08 (m, 2H), 0.44-0.50 (m, 2H), 1.01 (m, 1H), 3.21 (s, 3H), 3.34 (d, J = 7.5 Hz, 2H), 3.75 (s, 3H), 3.91 (s, 3H), 5.21 (s, 2H), 6.08 (s, 1H), 6.45 (s, 1H), 6.97-7.04 (m. 3H), 7.26-7.72 (m, 9H)
I-1288	mp 177-178 ℃ ^{1}H NMR ($CDCl_3$) δ 0.27 (t, J = 4.8 Hz, 1H), 0.60 (dd, J = 4.8, 8.7 Hz, 1H), 1.13 (s, 3H), 1.17 (s, 3H), 1.13-1.22 (m, 1H), 3.46 (s, 3H), 3.75 (s, 3H), 3.80 (s, 3H), 4.00 (dd, J = 7.8, 10.5 Hz, 1H), 4.12 (dd, J = 6.6, 10.5 Hz, 1H), 4.95 (bs, 1H), 5.91 (s, 1H), 6.46 (s, 1H), 6.91-7.02 (m, 5H), 7.52-7.56 (m, 2H) IR (KBr) 3479, 3434, 3389, 2940, 1614, 1589, 1523, 1490, 1466, 1395, 1361, 1319, 1271, 1238, 1218, 1174, 1137, 1117, 1072, 1011 cm^{-1}
I-1289	mp 153-155 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.80 (s, 3H), 2.25 (s, 3H), 3.80 (s, 3H), 3.89 (s, 3H), 4.63-4.65 (d, J = 6.6 Hz, 2H), 4.80 (br, 1H), 5.57 (m, 1H), 6.86-6.97 (m, 6H), 7.18 (s, 1H), 7.45-7.48 (m, 2H) IR ($CHCl_3$) 3596, 1609, 1523, 1493, 1464, 1387, 1256, 1173, 1138, 1042, 1032, 997, 834 cm^{-1}

Table 256

I-1290	mp 150-152 ℃ ^{1}H NMR ($CDCl_3$) δ 2.25 (s, 3H), 3.80 (s, 3H), 3.90 (s, 3H), 4.74-4.80 (m, 3H), 6.26 (t, J = 6.0 Hz, 1H), 6.85-6.92 (m, 6H), 7.19 (s, 1H), 7.45-7.48 (m, 2H) IR ($CHCl_3$) 3596, 2958, 2938, 1609, 1523, 1493, 1464, 1389, 1328, 1257, 1173, 1140, 1102, 1030, 886, 854, 834 cm^{-1}
I-1291	mp 117-118 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.79 (s, 3H), 2.28 (s, 3H), 2.31 (s, 3H), 3.01 (s, 6H), 3.88 (s, 3H), 4.63 (d, J = 6.6Hz, 2H), 5.53 - 5.60 (m, 1H), 6.76 - 6.96 (m, 5H), 7.15 (s, 2H), 7.28 (d, J = 8.7 Hz, 2H) IR (KBr) 1611, 1529, 1490, 1447, 1359, 1322, 1239, 1214, 1193, 1135, 1038,cm^{-1}
I-1292	mp 116-118 ℃ ^{1}H NMR ($CDCl_3$) 2.24 (s, 3H), 3.81 (s, 3H), 4.77 (d, J = 6.3 Hz, 2H), 4.90 (br s, 1H), 6.23 (t, J = 6.3 Hz, 1H), 6.83 (s, 1H), 6.90 (d, J = 8.7 Hz, 2H), 6.99 (t, J = 8.6 Hz, 1H), 7.17 (s, 1H), 7.25 (d, J = 8.7 Hz, 2H), 7.27 (ddd, J = 8.6, 2.1, 1.2 Hz, 1H), 7.37 (dd, J = 12.6, 2.1 Hz, 1H) IR (KBr) 3596, 1731, 1613, 1523, 1493, 1259, 1130, 1033, 885 cm^{-1}
I-1293	mp 151-154 ℃ ^{1}H NMR ($CDCl_3$) δ 2.23 (s, 3H), 3.21 (s, 3H), 3.80 (s, 3H), 3.93 (s, 3H), 5.20 (s, 2H), 6.81 (s, 1H), 6.95 (d, J = 8.4 Hz, 1H), 7.05 (dd, J = 8.4, 2.1 Hz, 1H), 7.15 (d, J = 2.1 Hz, 1H), 7.21 (s, 1H), 7.30-7.50 (m, 9H) IR (KBr) 1490, 1361, 1243, 1148, 1032, 876 cm^{-1}
I-1294	mp 119-121℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.79 (s, 3H), 2.24 (s, 3H), 3.21 (s, 3H), 3.80 (s, 3H), 3.91 (s, 3H), 4.63 (d, J = 6.5 Hz, 2H), 5.56 (t, J = 6.5 Hz, 1H), 6.82 (s, 1H), 6.94 (d, J = 8.4 Hz, 1H), 7.10 (dd, J = 8.4, 1.5 Hz, 1H), 7.13 (d, J = 1.5 Hz, 1H), 7.23 (s, 1H), 7.36 (d, J = 8.3 Hz, 2H), 7.43 (d, J = 8.3 Hz, 2H) IR (KBr) 1519, 1490, 1364, 1156, 1031, 971, 858 cm^{-1}

Table 257

I-1295	mp 135-137 ℃ ^{1}H NMR ($CDCl_3$) δ 1.75 (s, 3H), 1.78 (s, 3H), 2.25 (s, 3H), 3.80 (s, 3H), 3.90 (s, 3H), 4.63 (d, J = 6.7 Hz, 2H), 4.95 (s, 1H), 5.56 (t, J = 6.7 Hz, 1H), 6.84 (s, 1H), 6.90 (d, J = 8.7 Hz, 2H), 6.94 (d, J = 8.3 Hz, 1H), 7.10 (dd, J = 8.3, 2.1 Hz, 1H), 7.13 (d, J = 2.1 Hz, 1H), 7.21 (s, 1H), 7.26 (d, J = 8.7 Hz, 2H) IR (KBr) 3423, 1609, 1523, 1493, 1258, 1219, 1142, 1033, 834 cm^{-1}
I-1296	mp 140-141 ℃ ^{1}H NMR ($CDCl_3$) δ 1.46 (t, J = 6.9 Hz, 3H), 3.46 (s, 3H), 3.75 (s, 3H), 4.13 (q, J = 6.9 Hz, 2H), 4.77 (d, J = 6.0 Hz, 2H), 5.05 (s, 1H), 5.95 (s, 1H), 6.25 (t, J = 6.0 Hz, 1H), 6.47 (s, 1H), 6.90-6.97 (m, 3H), 7.01-7.06 (m, 2H), 7.50-7.57 (m, 2H) IR (KBr) 3463, 3433, 1613, 1521, 1491, 1259, 1400, 1267, 1235, 1204, 1167, 1136, 1112, 1097, 1076, 1019, 993, 882, 824, 811 cm^{-1}
I-1297	mp 204-205 ℃ ^{1}H NMR (DMSO-d_6) δ 2.21 (s, 3H), 2.22 (s, 3H), 2.87 (s, 3H), 3.02 (s, 3H), 4.96 (s, 2H), 6.80-6.86 (m, 2H), 7.05-7.11 (m, 4H), 7.13-7.19 (m, 2H), 7.20-7.27 (m, 1H) IR (KBr) 3153, 1644, 1590, 1522, 1487, 1437, 1314, 1264, 1231, 1197, 1127, 1067, 833 cm^{-1}
I-1298	mp 155-158 ℃ ^{1}H NMR ($CDCl_3$) δ 3.21 (s, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 4.42 (s, 4H), 5.93 (s, 1H), 6.44 (s, 1H), 6.90-6.96 (m, 1H), 7.06-7.11 (m, 1H), 7.19-7.39 (m, 13H), 7.67-7.72 (m, 2H) IR (KBr) 3445, 2940, 1615, 1521, 1483, 1367, 1149, 875, 707, 546, 526 cm^{-1}
I-1299	mp 174-175 ℃ ^{1}H NMR ($CDCl_3$) δ 2.15 (s, 3H), 3.20 (s, 3H), 3.53 (s, 3H), 3.78 (s, 3H), 4.40 (s, 4H), 6.82 (s, 1H), 6.91-7.01 (m, 2H), 7.11-7.39 (m, 13H), 7.65-7.70 (m, 2H) IR (KBr) 3028, 2936, 1618, 1520, 1482, 1365, 1176, 1151, 1079, 871, 798, 698, 527 cm^{-1}

Table 258

I-1300	mp 218-221 ℃ ^{1}H NMR ($CDCl_3$) δ 2.69 (s, 3H), 3.21 (s, 3H), 3.55 (s, 3H), 3.77 (s, 3H), 6.83 (s, 1H), 6.86-6.93 (m, 1H), 7.02-7.15 (m, 2H), 7.35-7.41 (m, 2H), 7.66-7.71 (m, 2H) IR (KBr) 3435, 3389, 2940, 1635, 1525, 1362, 1175, 1152, 1076, 962, 874, 802, 527 cm^{-1}
I-1301	mp 209-211 ℃ ^{1}H NMR ($CDCl_3$) δ 2.91 (s, 3H), 3.22 (s, 3H), 3.54 (s, 3H), 3.78 (s, 3H), 6.86 (s, 1H), 7.26-7.33 (m, 2H), 7.37-7.42 (m, 2H), 7.64-7.71 (m, 2H), 8.15 (s, 1H), 8.34-8.41 (m, 1H) IR (KBr) 3336, 2943, 1736, 1539, 1480, 1356, 1174, 1151, 1077, 881, 799, 523, 507 cm^{-1}
I-1302	powder ^{1}H NMR ($CDCl_3$) δ 1.50 (s, 3H), 1.71 (s, 3H), 2.78 (s, 3H), 3.23 (s, 3H), 3.55 (s, 3H), 3.78 (s, 3H), 4.11-4.20 (m, 1H), 4.54-4.63 (m, 1H), 5.20-5.28 (m, 1H), 6.87 (s, 1H), 7.25-7.31 (m, 3H), 7.37-7.42 (m, 2H), 7.66-7.72 (m, 2H) IR (KBr) 2941, 1702, 1482, 1369, 1203, 1176, 1152, 1080, 964, 873, 797, 525 cm^{-1}
I-1303	mp 133-136 ℃ ^{1}H NMR ($CDCl_3$) δ 1.73 (s, 3H), 1.77 (s, 3H), 3.45 (s, 3H), 3.74-3.78 (m, 5H), 4.96 (s, 1H), 5.34-5.42 (m, 1H), 5.94 (s, 1H), 6.45 (s, 1H), 6.75-6.81 (m, 1H), 6.89-6.95 (m, 2H), 7.10-7.18 (m, 2H), 7.51-7.56 (m, 2H) IR (KBr) 3401, 2935, 1626, 1614, 1527, 1490, 1402, 1267, 1223, 1113, 1071, 1005, 829, 589 cm^{-1}
I-1304	mp 170-171 ℃ ^{1}H NMR ($CDCl_3$) δ 2.11 (s, 3H), 3.47 (s, 3H), 4.40 (s, 4H), 4.91 (s, 1H), 5.81 (s, 1H), 6.77 (s, 1H), 6.86-7.08 (m, 5H), 7.22-7.33 (m, 10H), 7.48-7.53 (m, 2H) IR (KBr) 3483, 3029, 1612, 1523, 1489, 1453, 1400, 1265, 1215, 834, 749, 698, 494, 526 cm^{-1}

Table 259

I-1305	mp 166-168 ℃ ^1H NMR ($CDCl_3$) δ 2.15 (s, 3H), 2.17 (s, 3H), 3.19 (s, 3H), 4.21-4.59 (m, 4H), 6.84-7.05 (m, 3H), 7.14-7.15 (m, 1H), 7.20-7.38 (m, 12H), 7.63-7.69 (m, 2H) IR (KBr) 3028, 2938, 1519, 1476, 1454, 1363, 1174, 1151, 969, 873, 801, 700, 525 cm^{-1}
I-1306	mp 210-212 ℃ ^1H NMR ($CDCl_3$) δ 2.11 (s, 3H), 2.90 (s, 3H), 3.44 (s, 3H), 3.52 (s, 3H), 6.82-7.02 (m, 3H), 7.30 (s, 1H), 7.44-7.49 (m, 2H), 7.65-7.71 (m, 2H) IR (KBr) 3401, 2850, 1632, 1478, 1365, 1177, 1151, 967, 877, 800, 526 cm^{-1}
I-1307	mp 171-173 ℃ ^1H NMR ($CDCl_3$) δ 2.13 (s, 3H), 2.95 (s, 3H), 3.22 (s, 3H), 3.55 (s, 3H), 7.17-7.22 (m, 3H), 7.35-7.41 (m, 2H), 7.64-7.69 (m, 2H), 8.17 (s, 1H), 8.37-8.43 (m, 1H) IR (KBr) 3431, 3034, 2942, 1741, 1538, 1478, 1364, 1291, 1152, 971, 870, 801, 525 cm^{-1}
I-1308	powder ^1H NMR ($CDCl_3$) δ 1.47 (s, 3H), 1.70 (s, 3H), 2.11 (s, 3H), 2.67-3.15 (m, 3H), 3.22 (s, 3H), 3.56 (s, 3H), 4.13-4.22 (m, 1H), 4.54-4.63 (m, 1H), 5.21-5.28 (m, 1H), 7.09-7.42 (m, 6H), 7.63-7.71 (m, 2H) IR ($CHCl_3$) 2940, 1700, 1519, 1478, 1372, 1175, 1151, 968 cm^{-1}
I-1309	mp 139-141 ℃ ^1H NMR ($CDCl_3$) δ 1.74 (s, 3H), 1.78 (s, 3H), 2.13 (s, 3H), 3.48 (s, 3H), 3.77 (d, J = 6.6 Hz, 2H), 4.70-5.20 (br s, 1H), 5.35-5.42 (m, 1H), 5.77 (s, 1H), 6.77-6.83 (m, 2H), 6.88-6.99 (m, 4H), 7.48-7.54 (m, 2H) IR (KBr) 3525, 3377, 2931, 1625, 1526, 1488, 1222, 1164, 1011, 833 cm^{-1}

Table 260

I-1310	mp 177-179 ℃ ^{1}H NMR ($CDCl_3$) δ 1.76 (s, 3H), 1.81 (s, 3H), 3.20 (t, J = 8.4 Hz, 2H), 3.21 (t, J = 8.4 Hz, 2H), 4.521 (d, J = 7.2 Hz, 2H), 4.523 (t, J = 8.4 Hz, 2H), 4.90 (brs, 1H), 5.53 (t, J = 6.8 Hz, 1H), 6.71 (s, 1H), 6.89 (d, J = 8.4 Hz, 2H), 6.98 (d, J = 8.7 Hz, 2H), 7.41 (d, J = 8.7 Hz, 2H), 7.45 (d, J = 9.0 Hz, 2H) IR (KBr) 3389, 2971, 2911, 1611, 1525, 1394, 1238, 1175, 997, 828 cm^{-1}
I-1311	mp 175-177 ℃ ^{1}H NMR ($CDCl_3$) δ 3.20 (t, J = 8.3 Hz, 4H), 4.53 (t, J = 8.4 Hz, 4H), 4.70 (d, J = 6.3 Hz, 2H), 4.88 (brs, 1H), 6.19 (t, J = 6.2 Hz, 1H), 6.89 (d, J = 8.7 Hz, 2H), 6.96 (d, J = 9.0 Hz, 2H), 7.41 (d, J = 9.0 Hz, 2H), 7.47 (d, J = 8.7 Hz, 2H) IR (KBr) 3409, 3269, 2934, 2901, 1524, 1480, 1395, 1235, 1223, 1003, 881, 817 cm^{-1}
I-1312	mp 186-187 ℃ ^{1}H NMR ($CDCl_3$) δ 2.06 (s, 3H), 2.16 (s, 3H), 4.72 (s, 1H), 4.80 (d, J =6.3 Hz, 2H), 4.83 (s, 1H), 6.25 (t, J =6.3 Hz, 1H), 6.76 (s, 1H), 6.86-6.92 (m, 2H), 7.03-7.13 (m, 3H), 7.21-7.26 (m, 2H) IR ($CHCl_3$) 3689, 3598, 3551, 3024, 3008, 1732, 1614, 1520, 1487, 1260, 1223 cm^{-1}
I-1313	mp 201 ℃ ^{1}H NMR ($CDCl_3$) δ 2.08 (s, 3H), 2.17 (s, 3H), 3.88 (s, 3H), 4.80 (d, J =6.3 Hz, 2H), 4.90 (br s, 1H), 4.99 (s, 1H), 6.26 (t, J =6.3 Hz, 1H), 6.77 (s, 1H), 6.85-6.92 (m, 4H), 7.01 (d, J =6.9 Hz, 1H), 7.22-7.27 (m, 2H) IR ($CHCl_3$) 3688, 3598, 3538, 3024, 3014, 2938, 1731, 1631, 1520, 1488, 1240, 1172 cm^{-1}
I-1314	mp 132-134 ℃ ^{1}H NMR ($CDCl_3$) δ 2.12 (s, 3H), 2.29 (s, 3H), 3.00 (s, 6H), 3.74 (br, 2H), 6.62 (dd, J = 2.4, 8.1 Hz, 1H), 6.77-6.82 (m, 3H), 7.01-7.05 (m, 2H), 7.12 (s, 1H), 7.26-7.31 (m, 2H) IR (KBr) 3600-2800(br), 1610, 1523, 1483, 1443, 1325, 1297 cm^{-1}

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I-1315	mp 123-125 ℃ ^{1}H NMR ($CDCl_3$) δ 2.13 (s, 3H), 2.29 (m, 4H), 3.00 (s, 6H), 3.98 (br, 3H), 6.63 (dd, J = 2.4, 8.1 Hz, 1H), 6.77-6.81 (m, 3H), 7.02 (s, 1H), 7.09-7.13 (m, 2H), 7.25-7.32 (m, 2H) IR (KBr) 3600-2800(br), 1609, 1525, 1488, 1443, 1356, 1232, 1194 cm^{-1}
I-1316	mp 125-127 ℃ ^{1}H NMR ($CDCl_3$) δ 2.10 (s, 3H), 2.31 (s, 3H), 3.01 (s, 6H), 6.77-6.84 (m, 2H), 7.00 (s, 1H), 7.15 (s, 1H), 7.27-7.33 (m, 3H), 7.52 (dd, J = 3.0 , 12.9 Hz, 1H), 7.09 (d, J = 3.0 Hz, 1H), 7.95 (br s, 1H) IR (KBr) 3600-2800(br), 1707, 1611, 1528, 1484, 1350, 1279, 1229, 1196, 1154 cm^{-1}
I-1317	mp 94-95 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.26 (s, 6H), 4.63 (d, J = 6.6 Hz, 2H), 5.51 - 5.60 (m, 1H), 6.01 (s, 2H), .6.78-6.89 (m, 3H), 6.97-7.15 (m, 5H)
I-1318	^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.29 (s, 6H), 4.64 (d, J = 6.3 Hz, 2H), 5.53 - 5.60 (m, 1H), 6.99 - 7.21 (m, 5H), .7.33-7.39 (m, 2H), 7.49 (d.d, J = 5.4 & 0.3 Hz, 1H), 7.80 (s, 1H), 7.92 (d, J = 8.1 Hz, 1H)
I-1319	mp188-189 ℃ ^{1}H NMR ($CDCl_3$) δ 1.31 (t, J = 7.5 Hz, 3H), 2.26 (s, 3H), 2.29 (s, 3H), 2.68 (q, J = 7.5 Hz, 2H), 5.17 (s, 2H), 5.70 (brs, 1H), 6.83 (d, J = 6.8 Hz, 1H), 6.98-7.00 (m, 2H), 7.13 (d, J = 9.0 Hz, 2H), 7.26-7.30 (m, 2H), 7.38-7.48 (m, 5H), 7.78 (brs, 1H), 7.86 (d, J = 8.7 Hz, 1H) IR(KBr) 3444, 3269, 1710, 1533, 1487, 1269, 1244, 1199, 1174, 744, 697 cm^{-1}
I-1320	mp157-159 ℃ ^{1}H NMR ($CDCl_3$) δ 1.30 (t, J = 7.6 Hz, 3H), 2.27 (s, 3H), 2.28 (s, 3H), 2.68 (q, J = 7.2 Hz, 2H), 3.91 (s, 3H), 5.21 (s, 2H), 6.81-6.97 (m, 3H), 7.14 (d, J = 7.6 Hz, 2H), 7.25-7.51 (m, 7H), 7.79 (brs, 1H), 7.86 (d, J = 8.8 Hz, 1H) IR(KBr) 3434, 3260, 1707, 1519, 1501, 1488, 1260, 1241, 1213, 1172, 744, 697 cm^{-1}

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I-1321	mp186-187 ℃ ^{1}H NMR ($CDCl_3$) δ 1.30 (t, J = 8.4 Hz, 3H), 2.26 (s, 3H), 2.27 (s, 3H), 2.68 (q, J = 7.5 Hz, 2H), 5.20 (s, 2H), 7.04-7.14 (m, 6H), 7.26-7.50 (m, 6H), 7.79 (brs, 1H), 7.86 (d, J = 8.7 Hz, 1H) IR(KBr) 3436, 3266, 1709, 1536, 1521, 1487, 1267, 1199, 1176, 744, 697 cm^{-1}
I-1322	mp136-137 ℃ ^{1}H NMR ($CDCl_3$) δ 1.32 (t, J = 7.5 Hz, 3H), 2.28 (s, 3H), 2.30 (s, 3H), 2.70 (q, J = 7.5 Hz, 2H), 3.13 (s, 3H), 5.19 (s, 2H), 7.12-7.15 (m, 3H), 7.26-7.29 (m, 3H), 7.37-7.50 (m, 5H), 7.80 (brs, 1H), 7.87 (d, J = 9.0 Hz, 1H) IR(KBr) 3435, 1725, 1536, 1486, 1363, 1292, 1266, 1179, 1163, 1108, 7970, 895, 811, 525 cm^{-1}
I-1323	mp150-151 ℃ ^{1}H NMR ($CDCl_3$) δ 2.18 (s, 3H), 2.27 (s, 3H), 5.20 (s, 2H), 7.04-7.14 (m, 6H), 7.26-7.50 (m, 6H), 7.60 (d, J = 12.0 Hz, 1H), 7.94 (brs, 1H) IR(KBr) 3421, 3302, 1712, 1523, 1490, 1422, 1299, 1274, 1205, 1176, 1132, 743, 697 cm^{-1}
I-1324	mp83-84 ℃ ^{1}H NMR ($CDCl_3$) δ 1.30 (t, J = 7.6 Hz, 3H), 1.77 (s, 3H), 1.78 (s, 3H), 1.81 (s, 6H), 2.31 (s, 3H), 2.34 (s, 3H), 2.56 (q, J = 7.6 Hz, 2H), 3.80 (d, J = 6.4 Hz, 2H), 3.90 (s, 3H), 4.65 (d, J = 6.2 Hz, 2H), 5.44 (d, J = 6.2 Hz, 2H), 5.44 (t, J = 5.2 Hz, 1H), 5.59 (t, J = 5.4 Hz, 1H), 6.73 (d, J = 8.0 Hz, 1H), 6.92-6.94 (m, 3H), 7.12-7.20 (m, 4H) IR(KBr) 3428, 3374, 2964, 1607, 1519, 1494, 1458, 1311, 1256, 1239, 1139, 1036, 1002, 855, 820 cm^{-1}
I-1325	mp113-114 ℃ ^{1}H NMR ($CDCl_3$) δ 1.30 (t, J = 7.4 Hz, 3H), 1.76 (s, 3H), 1.78 (s, 3H), 1.80 (s, 3H), 1.84 (s, 3H), 2.30 (s, 3H), 2.32 (s, 3H), 2.55 (q, J = 7.6 Hz, 2H), 3.79 (d, J = 6.6 Hz, 2H), 4.63 (d, J = 6.6 Hz, 2H), 5.43 (t, J = 5.6 Hz, 1H), 5.55 (t, J = 6.6 Hz, 1H), 5.73 (brs, 1H), 6.72 (d, J = 8.0 Hz, 1H), 6.83-6.98 (m, 3H), 7.11-7.19 (m, 4H) IR(KBr) 3413, 3298, 2965, 2924, 1518, 1494, 1435, 1242, 1127, 1013, 883 cm^{-1}

Table 263

I-1326	mp81-82 ℃ ^{1}H NMR ($CDCl_3$) δ 1.29 (t, J = 7.4 Hz, 3H), 1.74 (s, 3H), 1.77 (s, 3H), 1.78 (s, 3H), 1.81 (s, 3H), 2.27 (s, 3H), 2.31 (s, 3H), 2.54 (q, J = 7.2 Hz, 2H), 3.79 (d, J = 7.2 Hz, 2H), 4.63 (d, J = 6.6 Hz, 2H), 5.42 (t, J = 6.4 Hz, 1H), 5.55 (t, J = 6.6 Hz, 1H), 6.71 (d, J = 8.0 Hz, 1H), 7.04-7.19 (m, 7H) IR(KBr) 3413, 2969, 2912, 2856, 1613, 1520, 1492, 1295, 1261, 1127, 1004, 881, 813 cm^{-1}
I-1327	mp94-95 ℃ ^{1}H NMR ($CDCl_3$) δ 1.74 (s, 3H), 1.77 (s, 6H), 1.81 (s, 3H), 2.21 (s, 3H), 2.26 (s, 3H), 3.72 (d, J = 6.9 Hz, 2H), 4.63 (d, J = 6.3 Hz, 2H), 5.35 (t, J = 6.9 Hz, 1H), 5.55 (t, J = 6.9 Hz, 1H), 6.37-6.48 (m, 2H), 7.01-7.13 (m, 6H) IR(KBr) 3423, 2967, 2918, 1627, 1525, 1488, 1296, 1267, 1129, 981, 837, 805 cm^{-1}
I-1328	mp 178-180℃ (decomp.) ^{1}H NMR (DMSO-d_6) δ 3.30 (s, 3H), 3.64 (s, 3H), 4.45 (s, 2H), 5.65 (s, 2H), 6.39 (s, 1H), 6.65 (dd, J = 8.4, 2.1 Hz, 1H), 6.74 (d, J = 2.1 Hz, 1H), 6.84 (d, J = 8.7 Hz, 2H), 6.99 (d, J = 8.4 Hz, 1H), 7.43 (d, J = 8.7 Hz, 2H), 9.26 (s, 1H) IR (Nujol) 3487, 3382, 1696, 1670, 1591, 1523, 1491, 1458, 1243, 1202, 1114, 1077, 1013, 937, 811 cm^{-1}
I-1329	mp 205-210℃ (decomp.) ^{1}H NMR (DMSO-d_6) δ 3.34 (s, 3H), 3.44 (s, 3H), 3.67 (s, 3H), 4.93 (s, 2H), 6.43 (s, 1H), 6.76 (dd, J = 8.4, 2.1 Hz, 1H), 6.85 (d, J = 2.1 Hz, 1H), 6.86 (d, J = 8.7 Hz, 2H), 7.04 (d, J = 8.4 Hz, 1H), 7.46 (d, J = 8.7 Hz, 2H) IR (Nujol) 3388, 3333, 3270, 1671, 1614, 1579, 1556, 1523, 1443, 1223, 1172, 1121, 1033, 922, 813 cm^{-1}
I-1330	mp 185-187℃ ^{1}H NMR ($CDCl_3$) δ 1.79 (t, J = 2.6 Hz, 3H), 2.69 (m, 2H), 2.75 (s, 3H), 3.21 (s, 3H), 3.29 (s, 3H), 3.56 (s, 3H), 3.77 (s, 3H), 4.17 (t, J = 6.6 Hz, 2H), 6.84 (s, 1H), 7.08 (d, J = 9.0 Hz, 1H), 7.36 (dd, J = 9.0, 2.1 Hz, 1H), 7.38 (d, J = 8.7 Hz, 2H), 7.40 (d, J = 2.1 Hz, 1H), 7.68 (d, J = 8.7 Hz, 2H) IR (Nujol) 1604, 1520, 1480, 1175, 1151, 1081, 1012, 971, 948, 878, 840, 807 cm^{-1}

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I-1331	foam ^{1}H NMR ($CDCl_3$) δ 1.81 (t, J = 2.4 Hz, 3H), 2.65 (m, 2H), 3.45 (s, 3H), 3.74 (s, 3H), 4.16 (t, J = 6.6 Hz, 2H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.95 (m, 2H), 7.07 (brs, 1H), 7.07 (d, J = 8.7 Hz, 2H) IR (Nujol) 3427, 1612, 1586, 1523, 1489, 1251, 1224, 1113, 1071, 1012 cm^{-1}
I-1332	foam ^{1}H NMR ($CDCl_3$) δ 3.45 (s, 3H), 3.75 (s, 3H), 4.16 (m, 2H), 4.76 (m, 2H), 5.89~6.02 (m, 2H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.96 (m, 2H), 7.09 (brs, 1H), 7.53 (d, J = 8.7 Hz, 2H) IR (Nujol) 3433, 1612, 1588, 1523, 1489, 1286, 1248, 1224, 1175, 1113, 1070, 1011 cm^{-1}
I-1333	foam ^{1}H NMR ($CDCl_3$) δ 3.45 (s, 3H), 3.74 (s, 3H), 4.11 (m, 2H), 4.67 (m, 2H), 5.96~6.12 (m, 2H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H),6.92 (d, J = 8.4 Hz, 1H), 6.96 (dd, J = 8.4, 2.1 Hz, 1H), 7.08 (d, J = 2.1 Hz, 1H), 7.53 (d, J = 8.7 Hz, 2H) IR (Nujol) 3434, 1612, 1588, 1523, 1489, 1285, 1248, 1224, 1174, 1112, 1070, 1011 cm^{-1}
I-1334	foam ^{1}H NMR ($CDCl_3$) δ 1.95 (s, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 4.11 (s, 2H), 4.68 (d, J =6.9 Hz, 2H), 5.75 (d, J = 6.9 Hz, 1H), 6.45 (s, 1H), 6.91 (d, J = 8.7 Hz, 2H), 6.96 (s, 2H), 7.08 (s, 1H), 7.53 (d, J = 8.7 Hz, 2H) IR (KBr) 3390, 1612, 1585, 1523, 1491, 1225, 1072, 1003, 822 cm^{-1}
I-1335	m.p 179-180 ℃ ^{1}H NMR ($CDCl_3$) δ 1.88 (s, 3H), 3.45 (s, 3H), 3.75 (s, 3H), 4.07 (s, 2H), 4.69 (d, J =6.6 Hz, 2H), 5.89 (d, J = 6.6 Hz, 1H), 6.45 (s, 1H), 6.91 (d, J = 8.7 Hz, 2H), 6.92 (d, J = 8.4 Hz, 1H), 6.96 (dd, J = 1.8, 8.4 Hz, 1H), 7.07 (d, J = 1.8 Hz, 1H), 7.53 (d, J = 8.7 Hz, 2H) IR (KBr) 3392, 1609, 1584, 1523, 1492, 1226, 1116, 1072, 1002, 813, 782 cm^{-1}

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1-136	foam ^{1}H NMR (CD3OD) δ 3.38 (s, 3H), 3.67 (s, 3H), 3.88 (dd, J = 7.8, 9.9 Hz, 1H), 4.10 (dd, J = 3.6, 9.9 Hz, 1H), 4.51 (m, 1H), 5.25 (dt, J = 10.5, 1.5 Hz, 1H), 5.44 (dt, J = 17.4, 1.5 Hz, 1H), 6.00 (ddd, J = 5.4, 10.5, 17.4 Hz, 1H), 6.43 (s, 1H), 6.79 (dd, J = 1.8, 8.4 Hz, 1H), 6.85 (d, J = 8.7 Hz, 2H), 6.86 (d, J = 1.8 Hz, 1H), 6.92 (d, J = 8.4 Hz, 1H), 7.45 (d, J = 8.7 Hz, 2H) IR (KBr) 3399, 2934, 1612, 1588, 1523, 1489, 1254, 1114, 1071, 1012, 939, 816 cm^{-1}
1-1337	foam ^{1}H NMR (CDCl$_3$) δ 3.45 (s, 3H), 3.75 (s, 3H), 4.20 (t, J = 2.1 Hz, 2H), 4.84 (t, J = 2.1 Hz, 2H), 6.45 (s, 1H), 6.92 (d, J = 8.7 Hz, 2H), 6.98 (dd, J = 2.1, 8.4 Hz, 1H), 7.04 (d, J = 8.4 Hz, 1H), 7.09 (d, J = 2.1 Hz, 1H), 7.45 (d, J = 8.7 Hz, 2H) IR (KBr) 3431, 1612, 1589, 1523, 1489, 1404, 1224, 1113, 1070, 1011, 939, 826 cm^{-1}
1-1338	foam ^{1}H NMR (CD3OD) δ 3.38 (s, 3H), 3.67 (s, 3H), 4.25 (d, J = 21.0 Hz, 2H), 4.84 (d, J = 7.5 Hz, 2H), 5.58 (dt, J = 19.5, 7.5 Hz, 1H), 6.43 (s, 1H), 6.79 (dd, J = 2.1, 8.4 Hz, 1H), 6.84 (d, J = 8.7 Hz, 2H), 6.86 (d, J = 2.1 Hz, 1H), 6.96 (d, J = 8.4 Hz, 1H), 7.45 (d, J = 8.7 Hz, 2H) IR (KBr) 3409, 1701, 1612, 1591, 1523, 1489, 1404, 1246, 1113, 1071, 1010, 939, 816 cm^{-1}
1-1339	foam ^{1}H NMR (CDCl$_3$) δ 3.44 (s, 3H), 3.74 (s, 3H), 4.21 (d, J = 21.3 Hz, 2H), 4.66 (dd, J = 1.8, 7.5 Hz, 2H), 5.70 (dt, J = 16.5, 7.5 Hz, 1H), 6.45 (s, 1H), 6.95 (d, J = 8.7 Hz, 2H), 6.96 (d, J = 8.4 Hz, 1H), 6.98 (dd, J = 1.5, 8.4 Hz, 1H), 7.09 (d, J = 1.5 Hz, 1H), 7.51 (d, J = 8.7 Hz, 2H) IR (KBr) 3411, 1698, 1611, 1588, 1522, 1488, 1223, 1112, 1070, 1011, 939, 825 cm^{-1}
1-1340	mp 171-172 ℃ ^{1}H NMR (CDCl$_3$) δ 1.50 (s, 3H), 1.67 (s, 3H), 1.96 (s, 3H), 3.45 (s, 3H), 3.77 (s, 3H), 4.13-4.49 (m, 2H), 5.23-5.30 (m, 1H), 5.59 (s, 1H), 6.13 (s, 1H), 6.47 (s, 1H), 6.92-6.98 (m, 2H), 7.18-7.35 (m, 3H), 7.50-7.57 (m, 2H) IR (KBr) 3390, 3140, 2935, 1640, 1523, 1401, 1240, 1119, 1070, 835, 820 cm^{-1}

Table 266

I-1341	mp 216-218 ℃ ^{1}H NMR ($CDCl_3$+CD_3OD) δ 1.46 (s, 3H), 1.67 (s, 3H), 1.95 (s, 3H), 2.10 (s, 3H), 3.46 (s, 3H), 4.16-4.47 (m, 2H), 5.21-5.28 (m, 1H), 6.79 (s, 1H), 6.88-6.95 (m, 2H), 7.11-7.27 (m, 3H), 7.45-7.52 (m, 2H) IR (KBr) 3337, 3099, 2928, 1637, 1608, 1587, 1521, 1444, 1409, 1261, 1232, 1161, 836, 769, 592, 540 cm^{-1}
I-1342	mp 103-105 ℃ ^{1}H NMR ($CDCl_3$) δ 1.15 (d, J = 6.8 Hz, 6H), 2.26 (s, 3H), 3.08 (sept, J = 6.8 Hz, 1H), 4.94 (s, 1H), 5.20 (s, 2H), 6.88 (d, J = 8.7 Hz, 2H), 7.04-7.07 (m, 3H), 7.12-7.18 (m, 1H), 7.18 (s, 1H), 7.20 (d, J = 8.7 Hz, 2H), 7.32-7.51 (m, 5H) IR (KBr) 3429, 1522, 1490, 1262, 1227, 1128, 1011, 833 cm^{-1}
I-1343	mp 115-117 ℃ ^{1}H NMR ($CDCl_3$) δ 1.15 (d, J = 6.6 Hz, 6H), 1.77 (s, 3H), 1.82 (s, 3H), 2.27 (s, 3H), 3.08 (sept, J = 6.8 Hz, 1H), 4.64 (d, J = 6.9 Hz, 2H), 4.86 (s, 1H), 5.56 (t, J = 6.9 Hz, 1H), 6.89 (d, J = 8.6 Hz, 2H), 7.03 (t, J = 8.4 Hz, 1H), 7.05-7.19 (m, 3H), 7.19 (s, 1H), 7.21 (d, J = 8.6 Hz, 2H) IR (KBr) 3524, 1611, 1523, 1489, 1260, 1228, 1200, 1128, 836 cm^{-1}
I-1344	mp 119-120 ℃ ^{1}H NMR ($CDCl_3$) δ 1.15 (d, J = 6.9 Hz, 6H), 2.26 (s, 3H), 3.08 (sept, J = 6.8 Hz, 1H), 4.79 (d, J = 6.3 Hz, 2H), 4.85 (s, 1H), 6.25 (t, J = 6.3 Hz, 1H), 6.89 (d, J = 8.7 Hz, 2H), 7.01 (t, J = 8.4 Hz, 1H), 7.07-7.12 (m, 2H), 7.15 (dd, J = 12.0, 2.1 Hz, 1H), 7.18 (s, 1H), 7.20 (d, J = 8.7 Hz, 2H) IR (KBr) 3425, 1610, 1523, 1488, 1300, 1263, 1300, 1263, 1227, 1134, 1038, 896 cm^{-1}
I-1345	mp 109-110 ℃ ^{1}H NMR ($CDCl_3$) δ 1.34 (d, J = 6.9 Hz, 3H), 2.24 (s, 3H), 4.00 (q, J = 6.9 Hz, 2H), 4.77-4.79 (m, 3H), 6.24 (t, J = 6.3 Hz, 1H), 6.86-6.90 (m, 2H), 6.98-7.19 (m, 4H), 7.47-7.50 (m, 2H) IR ($CHCl_3$) 3596, 2927, 1612, 1523, 1493, 1476, 1388, 1299, 1259, 1173, 1127, 1049, 885, 834 cm^{-1}

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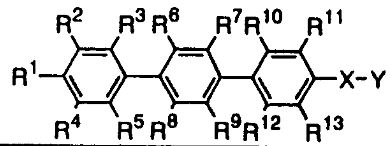
I-1346	mp 114-116 ℃ ^{1}H NMR ($CDCl_3$) δ 1.33 (d, J = 6.9 Hz, 3H), 1.77 (s, 3H), 1.81 (s, 3H), 2.24 (s, 3H), 4.00 (q, J = 6.9 Hz, 2H), 4.63 (m, 2H), 4.73 (br, 1H), 5.56 (m, 1H), 6.81 (s, 1H), 6.86-6.90 (m, 2H), 7.00-7.19 (m, 4H), 7.47-4.51 (m, 2H) IR ($CHCl_3$) 3596, 2929, 2877, 1610, 1523, 1493, 1476, 1386, 1329, 1316, 1297, 1261, 1173, 1125, 1048, 992, 834 cm^{-1}
I-1347	mp 144-146 ℃ ^{1}H NMR ($CDCl_3$) δ 3.20 (s, 3H), 3.40 (s, 3H), 3.75 (s, 3H), 4.74 (s, 2H), 5.19 (s, 2H), 6.44 (s, 1H), 7.05-7.62 (m, 12H) IR (KBr) 3437, 1614, 1579, 1520, 1488, 1465, 1453, 1436, 1414, 1393, 1364, 1346, 1299, 1270, 1235, 1198, 1175, 1149, 1129, 1114, 1085, 1063 cm^{-1}
I-1348	mp 156-159 ℃ ^{1}H NMR ($CDCl_3$) δ 2.48 (s, 3H), 3.05 (s, 3H), 3.20 (s, 3H), 3.78 (s, 3H), 4.83 (s, 2H), 5.21 (s, 2H), 6.84 (s, 1H), 7.02-7.67 (m, 12H) IR (KBr) 3430, 2940, 1607, 1522, 1481, 1452, 1419, 1389, 1365, 1294, 1273, 1230, 1200, 1176, 1151, 1132, 1080, 1011 cm^{-1}
I-1349	mp 155-156 ℃ ^{1}H NMR ($CDCl_3$) δ 1.15 (t, J = 6.9 Hz, 3H), 3.60 (q, J = 6.9 Hz, 2H), 3.75 (s, 3H), 3.90 (s, 3H), 4.93 (bs, 1H), 5.20 (s, 2H), 5.98 (s, 1H), 6.46 (s, 1H), 6.90-7.05 (m, 5H), 7.26-7.56 (m, 7H) IR (KBr) 3409, 2938, 1613, 1522, 1438, 1416, 1396, 1382, 1360, 1268, 1232, 1211, 1169, 1131, 1113, 1078, 1022, 1006 cm^{-1}
I-1350	mp 58-60 ℃ ^{1}H NMR (DMSO-d_6) δ 1.71 (s, 6H), 2.21 (s, 3H), 2.22 (s, 3H), 3.71-3.75 (m, 2H), 5.11 (br s, 2H), 5.25-5.29 (m, 1H), 5.50-5.53 (m, 1H), 6.60-6.63 (m, 2H), 6.66-6.73 (m, 1H), 6.95-7.05 (m, 6H) IR (KBr) 3600-2800(br), 1623, 1527, 1492, 1454, 1428, 1331, 1269, 1257, 1184, 1116 cm^{-1}

Table 268

I-1351	mp 140-142 ℃ (dec.) ^{1}H NMR ($CDCl_3$) δ 2.33 (s, 3H), 4.93 (s, 1H), 5.19 (s, 2H), 6.89 (d, J = 8.7 Hz, 2H), 7.06 (t, J = 8.6 Hz, 1H), 7.23 (d, J = 8.7 Hz, 2H), 7.24-7.50 (m, 10H) IR (KBr) 3400, 1609, 1529, 1490, 1269, 1243, 1005, 807, 745 cm^{-1}
I-1352	mp 114-116 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.81 (s, 3H), 2.33 (s, 3H), 4.63 (d, J = 6.9 Hz, 2H), 4.89 (s, 1H), 5.54 (t, J = 6.9 Hz, 1H), 6.89 (d, J = 8.6 Hz, 2H), 7.04 (t, J = 8.6 Hz, 1H), 7.23 (d, J = 8.6 Hz, 2H), 7.25-7.43 (m, 5H) IR (KBr) 3368, 1609, 1526, 1490, 1271, 1241, 1131, 991, 827, 811 cm^{-1}
I-1353	mp 78-79 ℃ ^{1}H NMR ($CDCl_3$) δ 1.77 (s, 3H), 1.82 (s, 3H), 2.24 (s, 3H), 2.27 (s, 3H), 4.64 (d, J = 6.6 Hz, 2H), 5.51 - 5.59 (m, 1H), 6.98 - 7.20 (m, 7H), .7.28 - 7.36 (m, 2H)

Table 269



(I)

No.	R^1	R^2	R^3	R^4	R^5	R^6	R^7	R^8	R^9	R^{10}	R^{11}	R^{12}	R^{13}	X	Y
I-1354	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-1355	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1356	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1357	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1358	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1359	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1360	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1361	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1362	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1363	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1364	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1365	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1366	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1367	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1368	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1369	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2C\equiv CMe$

Table 271

I-1391	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1392	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1393	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1394	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1395	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-1396	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1397	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1398	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1399	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1400	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1401	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1402	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1403	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1404	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1405	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1406	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1407	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1408	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1409	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1410	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1411	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2CH=CCl_2$

Table 272

I-1412	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2C{\equiv}CMe$
I-1413	OH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1414	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1415	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2C{\equiv}CMe$
I-1416	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-1417	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1418	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1419	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2C{\equiv}CMe$
I-1420	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1421	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1422	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1423	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1424	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2C{\equiv}CMe$
I-1425	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1426	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1427	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1428	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1429	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2C{\equiv}CMe$
I-1430	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1431	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1432	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$

Table 273

I-1433	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1434	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1435	OH	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1436	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1437	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1438	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1439	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1440	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1441	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1442	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1443	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1444	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1445	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1446	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1447	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1448	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1449	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1450	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1451	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1452	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1453	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$

Table 274

I-1454	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1455	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1456	OH	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1457	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1458	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1459	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1460	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1461	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-1462	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1463	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1464	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1465	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1466	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1467	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1468	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1469	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1470	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1471	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1472	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1473	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1474	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$

Table 275

I-1475	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1476	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1477	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1478	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1479	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2C{\equiv}CMe$
I-1480	OH	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1481	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-1482	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1483	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1484	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C{\equiv}CMe$
I-1485	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1486	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-1487	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1488	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1489	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C{\equiv}CMe$
I-1490	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1491	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1492	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1493	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1494	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C{\equiv}CMe$
I-1495	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$

Table 276

I-1496	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1497	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1498	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1499	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C{\equiv}CMe$
I-1500	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1501	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1502	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1503	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-154	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2C{\equiv}CMe$
I-1505	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1506	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-1507	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1508	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1509	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-CH_2C{\equiv}CMe$
I-1510	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1511	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-1512	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1513	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1514	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2C{\equiv}CMe$
I-1515	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1516	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2CH=CMe_2$

Table 277

I-1517	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1518	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1519	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1520	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1521	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1522	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1523	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1524	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1525	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1526	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1527	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1528	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1529	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1530	OMs	H	H	H	H	H	OMe	OMe	COOH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1531	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1532	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1533	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1534	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1535	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1536	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1537	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2C\equiv CMe$

Table 278

I-1538	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1539	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1540	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1541	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1542	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1543	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1544	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1545	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1546	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1547	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1548	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1549	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1550	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1551	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1552	OMs	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1553	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-1554	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1555	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1556	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1557	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1558	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2CH=CMe_2$

Table 279

I-1559	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1560	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1561	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1562	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1563	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1564	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1565	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1566	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1567	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1568	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1569	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1570	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1571	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1572	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1573	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1574	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1575	OMs	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1576	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-1577	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1578	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1579	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2C\equiv CMe$

Table 280

I-1580	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1581	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1582	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1583	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1584	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1585	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1586	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1587	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1588	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1589	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1590	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1591	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1592	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1593	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1594	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1595	OMs	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1596	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-1597	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1598	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1599	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1600	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$

Table 281

I-1601	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-1602	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1603	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1604	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1605	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1606	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1607	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1608	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1609	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1610	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1611	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1612	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1613	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1614	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1615	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1616	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1617	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1618	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1619	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1620	OMs	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1621	F	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH=CCl_2$

Table 282

I-1622	F	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1623	F	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1624	F	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1625	F	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1626	F	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1627	F	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1628	F	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1629	F	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1630	F	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1631	F	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1632	F	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1633	F	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1634	F	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1635	F	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1636	F	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1637	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1638	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1639	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-1640	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1641	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1642	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2C\equiv CMe$

Table 283

I-1643	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1644	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1645	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1646	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1647	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1648	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1649	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1650	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1651	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1652	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1653	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1654	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1655	F	H	H	H	H	H	OMe	OMe	COOH	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1656	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-1657	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1658	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1659	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1660	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1661	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-1662	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1663	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2CH=CCl_2$

Table 284

I-1664	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2C \equiv CMe$
I-1665	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1666	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1667	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1668	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1669	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2C \equiv CMe$
I-1670	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1671	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1672	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1673	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1674	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2C \equiv CMe$
I-1675	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1676	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1677	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1678	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1679	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2C \equiv CMe$
I-1680	F	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1681	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-1682	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1683	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1684	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2C \equiv CMe$

Table 285

I-1685	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1686	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-1687	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1688	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1689	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1690	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1691	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1692	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1693	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1694	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1695	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1696	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1697	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1698	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1699	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1700	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1701	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1702	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1703	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1704	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1705	F	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2C_6H_4-4-Me$

Table 286

I-1706	F	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-1707	F	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1708	F	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1709	F	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1710	F	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1711	F	H	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1712	F	H	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1713	F	H	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1714	F	H	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1715	F	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1716	F	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1717	F	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1718	F	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1719	F	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1720	F	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1721	F	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1722	F	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1723	F	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1724	F	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1725	F	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1726	F	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$

Table 287

I-1727	F	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1728	F	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1729	F	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1730	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1731	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1732	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1733	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1734	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-1735	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1736	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1737	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1738	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1739	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1740	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1741	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1742	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1743	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1744	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1745	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1746	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1747	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$

Table 288

I-1748	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1749	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1750	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1751	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1752	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1753	F	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1754	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-1755	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1756	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1757	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1758	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1759	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-1760	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1761	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1762	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1763	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1764	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1765	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1766	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1767	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1768	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$

Table 289

I-1768	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1769	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1770	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1771	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1772	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1773	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1774	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1775	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1776	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1777	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1778	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-1779	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1780	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1781	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1782	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1783	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-1784	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1785	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1786	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1787	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1788	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2CH=CMe_2$

Table 290

I-1789	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1790	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1791	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1792	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1793	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1794	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1795	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1796	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1797	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1798	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1799	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1800	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1801	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1802	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	COOH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1803	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-1804	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1805	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1806	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1807	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1808	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	OMe	O	$-CH_2CH=CMe_2$
I-1809	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	OMe	O	$-(CH_2)_2CH=CMe_2$

Table 291

I-1810	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1811	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1812	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1813	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1814	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1815	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1816	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1817	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1818	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1819	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1820	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1821	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1822	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1823	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1824	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1825	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1826	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1827	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1828	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-1829	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1830	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2CH=CCl_2$

Table 292

I-1831	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2C \equiv CMe$
I-1832	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1833	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-1834	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1835	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1836	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2C \equiv CMe$
I-1837	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1838	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1839	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1840	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1841	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2C \equiv CMe$
I-1842	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1843	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1844	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1845	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1846	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2C \equiv CMe$
I-1847	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1848	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1849	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1850	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1851	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2C \equiv CMe$

Table 293

I-1852	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1853	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-1854	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1855	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1856	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1857	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1858	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-1859	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1860	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1861	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1862	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1863	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1864	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1865	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1866	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1867	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1868	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1869	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1870	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1871	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1872	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$

Table 294

I-1873	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1874	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1875	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1876	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1877	$-OCH_2O-*$	H	H	*	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1878	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-1879	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1880	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1881	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1882	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1883	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-1884	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1885	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1886	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1887	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1888	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1889	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1890	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1891	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1892	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1893	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$

Table 295

I-1894	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	CH_2OH	0	$-(CH_2)_2CH=CMe_2$
I-1895	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	CH_2OH	0	$-CH_2CH=CCl_2$
I-1896	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	CH_2OH	0	$-CH_2C\equiv CMe$
I-1897	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	CH_2OH	0	$-CH_2C_6H_4-4-Me$
I-1898	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	F	0	$-CH_2CH=CMe_2$
I-1899	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	F	0	$-(CH_2)_2CH=CMe_2$
I-1900	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	F	0	$-CH_2CH=CCl_2$
I-1901	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	F	0	$-CH_2C\equiv CMe$
I-1902	$-OCH_2O-*$	H	H	*	H	F	OMe	OMe	OH	H	H	H	F	0	$-CH_2C_6H_4-4-Me$
I-1903	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	0	$-(CH_2)_2CH=CMe_2$
I-1904	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	0	$-CH_2CH=CCl_2$
I-1905	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	0	$-CH_2C\equiv CMe$
I-1906	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMe	0	$-CH_2CH=CMe_2$
I-1907	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMe	0	$-(CH_2)_2CH=CMe_2$
I-1908	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMe	0	$-CH_2CH=CCl_2$
I-1909	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMe	0	$-CH_2C\equiv CMe$
I-1910	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMe	0	$-CH_2C_6H_4-4-Me$
I-1911	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	0	$-CH_2CH=CMe_2$
I-1912	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	0	$-(CH_2)_2CH=CMe_2$
I-1913	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	0	$-CH_2CH=CCl_2$
I-1914	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	0	$-CH_2C\equiv CMe$

Table 296

I-1915	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1916	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1917	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1918	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1919	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1920	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1921	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1922	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1923	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1924	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1925	NMe_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1926	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-1927	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1928	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1929	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1930	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1931	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-1932	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1933	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1934	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1935	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$

Table 297

I-1936	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1937	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1938	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-199	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-190	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1941	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1942	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1943	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1944	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1945	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1946	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1947	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1948	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1949	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1950	NMe_2	H	H	H	H	H	OMe	OMe	COOH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1951	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-1952	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-1953	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1954	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1955	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1956	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2CH=CMe_2$

Table 298

I-1957	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1958	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1959	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1960	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1961	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1962	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1963	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1964	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1965	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1966	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1967	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-198	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1969	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1970	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1971	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1972	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1973	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-1974	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2C\equiv CMe$
I-1975	NMe_2	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-1976	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-1977	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$

Table 299

I-1978	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-1979	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-1980	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-1981	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-1982	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-1983	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-1984	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-1985	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-1986	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-1987	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-1988	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-1989	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-1990	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-1991	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-1992	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-1993	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-1994	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-1995	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-1996	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2CH=CMe_2$
I-1997	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-1998	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2CH=CCl_2$

Table 300

I-1999	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2C\equiv CMe$
I-2000	NMe_2	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-2001	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-2002	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-2003	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-2004	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-2005	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-2006	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	OMe	O	$-CH_2CH=CMe_2$
I-2007	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	OMe	O	$-(CH_2)_2CH=CMe_2$
I-2008	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	OMe	O	$-CH_2CH=CCl_2$
I-2009	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	OMe	O	$-CH_2C\equiv CMe$
I-2010	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	OMe	O	$-CH_2C_6H_4-4-Me$
I-2011	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-2012	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-2013	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-2014	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-2015	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-2016	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-2017	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-2018	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-2019	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$

Table 301

I-2020	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-2021	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2CH=CMe_2$
I-2022	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-2023	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2CH=CCl_2$
I-2024	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2C\equiv CMe$
I-2025	NMe_2	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-2026	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-2027	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-2028	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-2029	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-2030	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-2031	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-2032	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-2033	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-2034	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-2035	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-2036	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-2037	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-2038	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-2039	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-2040	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$

Table 302

I-2041	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-2042	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-2043	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-2044	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-2045	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-2046	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CMe_2$
I-2047	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-2048	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-2049	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2C\equiv CMe$
I-2050	NMe_2	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-2051	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-2052	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-2053	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-2054	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-2055	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-2056	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-2057	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-2058	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-2059	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-2060	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-2061	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CCl_2$

Table 303

I-2062	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-2063	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-2064	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-2065	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-2066	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-2067	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-2068	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-2069	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CMe_2$
I-2070	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-2071	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-2072	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2C\equiv CMe$
I-2073	COOH	H	H	H	H	H	OMe	OMe	OH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-2074	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-2075	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-2076	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-2077	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-2078	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-2079	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-2080	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-2081	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-2082	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2C\equiv CMe$

Table 304

1-2083	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
1-2084	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
1-2085	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
1-2086	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
1-2087	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2C\equiv CMe$
1-2088	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
1-2089	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
1-2090	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
1-2091	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
1-2092	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
1-2093	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
1-2094	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	F	O	$-CH_2CH=CMe_2$
1-2095	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
1-2096	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	F	O	$-CH_2CH=CCl_2$
1-2097	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	F	O	$-CH_2C\equiv CMe$
1-2098	COOH	H	H	H	H	H	OMe	OMe	COOH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
1-2099	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2CH=CMe_2$
1-2100	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
1-2101	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2CH=CCl_2$
1-2102	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2C\equiv CMe$
1-2103	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$

Table 305

I-2104	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-2105	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-2106	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-2107	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2C{\equiv}CMe$
I-2108	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-2109	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-2110	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-2111	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-2112	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2C{\equiv}CMe$
I-2113	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-2114	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-2115	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-2116	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-2117	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2C{\equiv}CMe$
I-2118	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-2119	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2CH=CMe_2$
I-2120	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-2121	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-2122	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2C{\equiv}CMe$
I-2123	COOH	H	H	H	H	H	OMe	OMe	CH_2OH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-2124	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2CH=CMe_2$

Table 306

I-2125	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-2126	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-2127	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-2128	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-2129	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-2130	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-2131	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-2132	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-2133	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-2134	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-2135	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-2136	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-2137	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I-2138	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-2139	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-2140	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-2141	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-2142	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-2143	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-2144	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2CH=CMe_2$
I-2145	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$

Table 307

I·2146	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2CH=CCl_2$
I·2147	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2C\equiv CMe$
I·2148	COOH	H	H	H	H	H	OMe	OMe	Me	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I·2149	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2CH=CMe_2$
I·2150	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I·2151	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2CH=CCl_2$
I·2152	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2C\equiv CMe$
I·2153	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I·2154	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I·2155	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I·2156	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I·2157	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I·2158	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I·2159	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I·2160	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I·2161	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I·2162	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2C\equiv CMe$
I·2163	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I·2164	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I·2165	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I·2166	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$

Table 308

I-2167	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-2168	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-2169	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2CH=CMe_2$
I-2170	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-2171	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2CH=CCl_2$
I-2172	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2C\equiv CMe$
I-2173	COOH	H	H	H	H	H	OMe	OMe	H	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-2174	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-2175	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-(CH_2)_2CH=CMe_2$
I-2176	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH=CCl_2$
I-2177	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C\equiv CMe$
I-2178	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C_6H_4-4-Me$
I-2179	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CMe_2$
I-2180	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-2181	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2CH=CCl_2$
I-2182	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C\equiv CMe$
I-2183	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	OMs	O	$-CH_2C_6H_4-4-Me$
I-2184	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CMe_2$
I-2185	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-(CH_2)_2CH=CMe_2$
I-2186	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2CH=CCl_2$
I-2187	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C\equiv CMe$

Table 309

I-2188	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	COOH	O	$-CH_2C_6H_4-4-Me$
I-2189	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CMe_2$
I-2190	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-(CH_2)_2CH=CMe_2$
I-2191	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2CH=CCl_2$
I-2192	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C\equiv CMe$
I-2193	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	CH_2OH	O	$-CH_2C_6H_4-4-Me$
I-2194	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CMe_2$
I-2195	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-(CH_2)_2CH=CMe_2$
I-2196	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2CH=CCl_2$
I-2197	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2C\equiv CMe$
I-2198	COOH	H	H	H	H	F	OMe	OMe	OH	H	H	H	F	O	$-CH_2C_6H_4-4-Me$
I-2199	NO_2	H	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-2200	OMs	NO_2	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-2201	OMs	H	H	H	H	H	OMe	OMe	H	NO_2	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-2202	CN	H	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-2203	OMs	CN	H	H	H	H	OMe	OMe	H	H	H	H	OMs	O	$-(CH_2)_2CH=CMe_2$
I-2204	OH	H	H	H	H	H	OMe	OMe	OMs	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-2205	OH	H	H	H	H	H	OMe	OMe	OMs	H	H	H	OH	O	$-CH_2C_6H_5$
I-2206	OH	H	H	H	H	H	OMe	OMe	OMs	H	H	H	NH_2	O	$-CH_2CH=CMe_2$
I-2207	OH	H	H	H	H	H	OMe	OMe	OMs	H	H	H	NH_2	O	$-CH_2C_6H_5$
I-2208	OH	H	H	H	H	H	OMe	OEt	OH	H	H	H	OH	O	$-CH_2C_6H_5$

Table 310

1-2209	OH	H	H	H	H	H	OMe	OEt	OH	H	H	H	NH_2	O	$-CH_2CH{=}CMe_2$
1-2210	OH	H	H	H	H	H	Me	Me	H	H	H	H	OH	O	$-CH_2C_6H_5$
1-2211	OH	H	H	H	H	H	Me	Me	H	H	H	H	NH_2	O	$-CH_2CH{=}CMe_2$
1-2212	OH	H	H	H	H	H	Me	Me	H	H	H	H	NH_2	O	$-CH_2C_6H_5$
1-2213	OH	H	H	H	H	H	OMe	OMe	NH_2	H	H	H	OH	O	$-CH_2CH{=}CMe_2$
1-2214	OH	H	H	H	H	H	OMe	OMe	NH_2	H	H	H	NH_2	O	$-CH_2CH{=}CMe_2$
1-2215	OH	H	H	H	H	H	OMe	OMe	NH_2	H	H	H	NH_2	O	$-CH_2C_6H_5$
1-2216	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH{=}CMe_2$
1-2217	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C_6H_5$
1-2218	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	NH_2	O	$-CH_2CH{=}CMe_2$
1-2219	OH	H	H	H	H	H	OMe	OMe	OH	H	H	H	NH_2	O	$-CH_2C_6H_5$
1-2220	OMs	H	H	H	H	H	OMe	OMe	OMs	H	H	H	OH	O	$-CH_2CH{=}CMe_2$
1-2221	OMs	H	H	H	H	H	OMe	OMe	OMs	H	H	H	OH	O	$-CH_2C_6H_5$
1-2222	OMs	H	H	H	H	H	OMe	OMe	OMs	H	H	H	NH_2	O	$-CH_2CH{=}CMe_2$
1-2223	OMs	H	H	H	H	H	OMe	OMe	OMs	H	H	H	NH_2	O	$-CH_2C_6H_5$
1-2224	OMs	H	H	H	H	H	OMe	OEt	OH	H	H	H	OH	O	$-CH_2CH{=}CMe_2$
1-2225	OMs	H	H	H	H	H	OMe	OEt	OH	H	H	H	OH	O	$-CH_2C_6H_5$
1-2226	OMs	H	H	H	H	H	OMe	OEt	OH	H	H	H	NH_2	O	$-CH_2CH{=}CMe_2$
1-2227	OMs	H	H	H	H	H	OMe	OEt	OH	H	H	H	NH_2	O	$-CH_2C_6H_5$
1-2228	OMs	H	H	H	H	H	Me	Me	H	H	H	H	OH	O	$-CH_2CH{=}CMe_2$
1-2229	OMs	H	H	H	H	H	Me	Me	H	H	H	H	OH	O	$-CH_2C_6H_5$

Table 311

I-2230	OMs	H	H	H	H	H	Me	Me	H	H	H	H	NH_2	O	$-CH_2CH=CMe_2$
I-2231	OMs	H	H	H	H	H	Me	Me	H	H	H	H	NH_2	O	$-CH_2C_6H_5$
I-2232	OMs	H	H	H	H	H	OMe	OMe	NH_2	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-2233	OMs	H	H	H	H	H	OMe	OMe	NH_2	H	H	H	NH_2	O	$-CH_2CH=CMe_2$
I-2234	OMs	H	H	H	H	H	OMe	OMe	NH_2	H	H	H	NH_2	O	$-CH_2C_6H_5$
I-2235	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-2236	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C_6H_5$
I-2237	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	NH_2	O	$-CH_2CH=CMe_2$
I-2238	OMs	H	H	H	H	H	OMe	OMe	OH	H	H	H	NH_2	O	$-CH_2C_6H_5$
I-2239	CF_3	H	H	H	H	H	OMe	OMe	OMs	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-2240	CF_3	H	H	H	H	H	OMe	OMe	OMs	H	H	H	OH	O	$-CH_2C_6H_5$
I-2241	CF_3	H	H	H	H	H	OMe	OMe	OMs	H	H	H	NH_2	O	$-CH_2CH=CMe_2$
I-2242	CF_3	H	H	H	H	H	OMe	OMe	OMs	H	H	H	NH_2	O	$-CH_2C_6H_5$
I-2243	CF_3	H	H	H	H	H	OMe	OEt	OH	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-2244	CF_3	H	H	H	H	H	OMe	OEt	OH	H	H	H	OH	O	$-CH_2C_6H_5$
I-2245	CF_3	H	H	H	H	H	OMe	OEt	OH	H	H	H	NH_2	O	$-CH_2CH=CMe_2$
I-2246	CF_3	H	H	H	H	H	OMe	OEt	OH	H	H	H	NH_2	O	$-CH_2C_6H_5$
I-2247	CF_3	H	H	H	H	H	Me	Me	H	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-2248	CF_3	H	H	H	H	H	Me	Me	H	H	H	H	OH	O	$-CH_2C_6H_5$
I-2249	CF_3	H	H	H	H	H	Me	Me	H	H	H	H	NH_2	O	$-CH_2CH=CMe_2$
I-2250	CF_3	H	H	H	H	H	Me	Me	H	H	H	H	NH_2	O	$-CH_2C_6H_5$

Table 312

I-2251	CF_3	H	H	H	H	H	OMe	OMe	NH_2	H	H	H	OH	O	$-CH_2CH{=}CMe_2$
I-2252	CF_3	H	H	H	H	H	OMe	OMe	NH_2	H	H	H	OH	O	$-CH_2C_6H_5$
I-2253	CF_3	H	H	H	H	H	OMe	OMe	NH_2	H	H	H	NH_2	O	$-CH_2CH{=}CMe_2$
I-2254	CF_3	H	H	H	H	H	OMe	OMe	NH_2	H	H	H	NH_2	O	$-CH_2C_6H_5$
I-2255	CF_3	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH{=}CMe_2$
I-2256	CF_3	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C_6H_5$
I-2257	CF_3	H	H	H	H	H	OMe	OMe	OH	H	H	H	NH_2	O	$-CH_2CH{=}CMe_2$
I-2258	CF_3	H	H	H	H	H	OMe	OMe	OH	H	H	H	NH_2	O	$-CH_2C_6H_5$
I-2259	NH_2	H	H	H	H	H	OMe	OMe	OMs	H	H	H	OH	O	$-CH_2CH{=}CMe_2$
I-2260	NH_2	H	H	H	H	H	OMe	OMe	OMs	H	H	H	OH	O	$-CH_2C_6H_5$
I-2261	NH_2	H	H	H	H	H	OMe	OMe	OMs	H	H	H	NH_2	O	$-CH_2CH{=}CMe_2$
I-2262	NH_2	H	H	H	H	H	OMe	OMe	OMs	H	H	H	NH_2	O	$-CH_2C_6H_5$
I-2263	NH_2	H	H	H	H	H	OMe	OEt	OH	H	H	H	OH	O	$-CH_2CH{=}CMe_2$
I-2264	NH_2	H	H	H	H	H	OMe	OEt	OH	H	H	H	OH	O	$-CH_2C_6H_5$
I-2265	NH_2	H	H	H	H	H	OMe	OEt	OH	H	H	H	NH_2	O	$-CH_2CH{=}CMe_2$
I-2266	NH_2	H	H	H	H	H	OMe	OEt	OH	H	H	H	NH_2	O	$-CH_2C_6H_5$
I-2267	NH_2	H	H	H	H	H	Me	Me	H	H	H	H	OH	O	$-CH_2CH{=}CMe_2$
I-2268	NH_2	H	H	H	H	H	Me	Me	H	H	H	H	OH	O	$-CH_2C_6H_5$
I-2269	NH_2	H	H	H	H	H	Me	Me	H	H	H	H	NH_2	O	$-CH_2CH{=}CMe_2$
I-2270	NH_2	H	H	H	H	H	Me	Me	H	H	H	H	NH_2	O	$-CH_2C_6H_5$
I-2271	NH_2	H	H	H	H	H	OMe	OMe	NH_2	H	H	H	OH	O	$-CH_2CH{=}CMe_2$

Table 313

I-2272	NH_2	H	H	H	H	H	OMe	OMe	NH_2	H	H	H	OH	O	$-CH_2C_6H_5$
I-2273	NH_2	H	H	H	H	H	OMe	OMe	NH_2	H	H	H	NH_2	O	$-CH_2CH=CMe_2$
I-2274	NH_2	H	H	H	H	H	OMe	OMe	NH_2	H	H	H	NH_2	O	$-CH_2C_6H_5$
I-2275	NH_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2CH=CMe_2$
I-2276	NH_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	OH	O	$-CH_2C_6H_5$
I-2277	NH_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	NH_2	O	$-CH_2CH=CMe_2$
I-2278	NH_2	H	H	H	H	H	OMe	OMe	OH	H	H	H	NH_2	O	$-CH_2C_6H_5$
I-2279	$-NHCH_2CH=CMe_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OMe	NH	$-CH_2CH=CMe_2$
I-2280	$-NHCH_2CH=CMe_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OMe	NH	$-(CH_2)_2CHMe_2$
I-2281	$-NHCH_2CH=CMe_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OMe	NMe	Me
I-2282	$-NHCH_2CH=CMe_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OMe	O	$-CH_2CH=CMe_2$
I-2283	$-NHCH_2CH=CMe_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OMe	O	$-CH_2CH=CCl_2$
I-2284	$-NHCH_2CH=CMe_2$	H	F	H	H	Me	Me	Me	H	H	H	F	H	NH	$-CH_2CH=CMe_2$
I-2285	$-NHCH_2CH=CMe_2$	H	F	H	H	Me	Me	Me	H	H	H	F	H	NH	$-(CH_2)_2CHMe_2$
I-2286	$-NHCH_2CH=CMe_2$	H	F	H	H	Me	Me	Me	H	H	H	F	H	NMe	Me
I-2287	$-NHCH_2CH=CMe_2$	H	F	H	H	Me	Me	Me	H	H	H	F	H	O	$-CH_2CH=CMe_2$
I-2288	$-NHCH_2CH=CMe_2$	H	F	H	H	Me	Me	Me	H	H	H	F	H	O	$-CH_2CH=CCl_2$
I-2289	$-NHCH_2CH=CMe_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OEt	NH	$-CH_2CH=CMe_2$
I-2290	$-NHCH_2CH=CMe_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OEt	NH	$-(CH_2)_2CHMe_2$
I-2291	$-NHCH_2CH=CMe_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OEt	NMe	Me
I-2292	$-NHCH_2CH=CMe_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OEt	O	$-CH_2CH=CMe_2$

Table 314

I-2293	-NHCH$_2$CH=CMe$_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OEt	O	-CH$_2$CH=CCl$_2$
I-2294	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	OMe	OH	H	H	H	OMe	NH	-CH$_2$CH=CMe$_2$
I-2295	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	OMe	OH	H	H	H	OMe	NH	-(CH$_2$)$_2$CHMe$_2$
I-2296	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	OMe	OH	H	H	H	OMe	NMe	Me
I-2297	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	OMe	OH	H	H	H	OMe	O	-CH$_2$CH=CMe$_2$
I-2298	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	OMe	OH	H	H	H	OMe	O	-CH$_2$CH=CCl$_2$
I-2299	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	OMe	OH	H	H	F	H	NH	-CH$_2$CH=CMe$_2$
I-2300	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	OMe	OH	H	H	F	H	NH	-(CH$_2$)$_2$CHMe$_2$
I-2301	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	OMe	OH	H	H	F	H	NMe	Me
I-2302	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	OMe	OH	H	H	F	H	O	-CH$_2$CH=CMe$_2$
I-2303	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	OMe	OH	H	H	F	H	O	-CH$_2$CH=CCl$_2$
I-2304	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	OMe	OH	H	H	H	OEt	NH	-CH$_2$CH=CMe$_2$
I-2305	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	OMe	OH	H	H	H	OEt	NH	-(CH$_2$)$_2$CHMe$_2$
I-2306	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	OMe	OH	H	H	H	OEt	NMe	Me
I-2307	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	OMe	OH	H	H	H	OEt	O	-CH$_2$CH=CMe$_2$
I-2308	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	OMe	OH	H	H	H	OEt	O	-CH$_2$CH=CCl$_2$
I-2309	-NHCH$_2$CH=CMe$_2$	H	F	H	H	Me	H	Me	OH	H	H	H	OMe	NH	-CH$_2$CH=CMe$_2$
I-2330	-NHCH$_2$CH=CMe$_2$	H	F	H	H	Me	H	Me	OH	H	H	H	OMe	NH	-(CH$_2$)$_2$CHMe$_2$
I-2331	-NHCH$_2$CH=CMe$_2$	H	F	H	H	Me	H	Me	OH	H	H	H	OMe	NMe	Me
I-2332	-NHCH$_2$CH=CMe$_2$	H	F	H	H	Me	H	Me	OH	H	H	H	OMe	O	-CH$_2$CH=CMe$_2$
I-2333	-NHCH$_2$CH=CMe$_2$	H	F	H	H	Me	H	Me	OH	H	H	H	OMe	O	-CH$_2$CH=CCl$_2$

Table 315

I-2334	-NHCH$_2$CH=CMe$_2$	H	F	H	H	Me	H	Me	OH	H	H	F	H	NH	-CH$_2$CH=CMe$_2$
I-2335	-NHCH$_2$CH=CMe$_2$	H	F	H	H	Me	H	Me	OH	H	H	F	H	NH	-(CH$_2$)$_2$CHMe$_2$
I-2336	-NHCH$_2$CH=CMe$_2$	H	F	H	H	Me	H	Me	OH	H	H	F	H	NMe	Me
I-2337	-NHCH$_2$CH=CMe$_2$	H	F	H	H	Me	H	Me	OH	H	H	F	H	O	-CH$_2$CH=CMe$_2$
I-2338	-NHCH$_2$CH=CMe$_2$	H	F	H	H	Me	H	Me	OH	H	H	F	H	O	-CH$_2$CH=CCl$_2$
I-2339	-NHCH$_2$CH=CMe$_2$	H	F	H	H	Me	H	Me	OH	H	H	H	OEt	NH	-CH$_2$CH=CMe$_2$
I-2340	-NHCH$_2$CH=CMe$_2$	H	F	H	H	Me	H	Me	OH	H	H	H	OEt	NH	-(CH$_2$)$_2$CHMe$_2$
I-2341	-NHCH$_2$CH=CMe$_2$	H	F	H	H	Me	H	Me	OH	H	H	H	OEt	NMe	Me
I-2342	-NHCH$_2$CH=CMe$_2$	H	F	H	H	Me	H	Me	OH	H	H	H	OEt	O	-CH$_2$CH=CMe$_2$
I-2343	-NHCH$_2$CH=CMe$_2$	H	F	H	H	Me	H	Me	OH	H	H	H	OEt	O	-CH$_2$CH=CCl$_2$
I-2344	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OMe	NH	-CH$_2$CH=CMe$_2$
I-2345	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OMe	NH	-(CH$_2$)$_2$CHMe$_2$
I-2346	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OMe	NMe	Me
I-2347	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OMe	O	-CH$_2$CH=CMe$_2$
I-2348	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OMe	O	-CH$_2$CH=CCl$_2$
I-2349	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	Me	Me	H	H	F	H	NH	-CH$_2$CH=CMe$_2$
I-2350	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	Me	Me	H	H	F	H	NH	-(CH$_2$)$_2$CHMe$_2$
I-2351	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	Me	Me	H	H	F	H	NMe	Me
I-2352	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	Me	Me	H	H	F	H	O	-CH$_2$CH=CMe$_2$
I-2353	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	Me	Me	H	H	F	H	O	-CH$_2$CH=CCl$_2$
I-2354	-NHCH$_2$CH=CMe$_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OEt	NH	-CH$_2$CH=CMe$_2$

Table 316

I-2355	$-NHCH_2CH=CMe_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OEt	NH	$-(CH_2)_2CHMe_2$
I-2356	$-NHCH_2CH=CMe_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OEt	NMe	Me
I-2357	$-NHCH_2CH=CMe_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OEt	O	$-CH_2CH=CMe_2$
I-2358	$-NHCH_2CH=CMe_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OEt	O	$-CH_2CH=CCl_2$
I-2359	$-NHCH_2CH=CMe_2$	H	F	H	H	H	OMe	OEt	OH	H	H	H	OMe	NH	$-CH_2CH=CMe_2$
I-2360	$-NHCH_2CH=CMe_2$	H	F	H	H	H	OMe	OEt	OH	H	H	H	OMe	NH	$-(CH_2)_2CHMe_2$
I-2361	$-NHCH_2CH=CMe_2$	H	F	H	H	H	OMe	OEt	OH	H	H	H	OMe	NMe	Me
I-2362	$-NHCH_2CH=CMe_2$	H	F	H	H	H	OMe	OEt	OH	H	H	H	OMe	O	$-CH_2CH=CMe_2$
I-2363	$-NHCH_2CH=CMe_2$	H	F	H	H	H	OMe	OEt	OH	H	H	H	OMe	O	$-CH_2CH=CCl_2$
I-2364	$-NHCH_2CH=CMe_2$	H	F	H	H	H	OMe	OEt	OH	H	H	F	H	NH	$-CH_2CH=CMe_2$
I-2365	$-NHCH_2CH=CMe_2$	H	F	H	H	H	OMe	OEt	OH	H	H	F	H	NH	$-(CH_2)_2CHMe_2$
I-2366	$-NHCH_2CH=CMe_2$	H	F	H	H	H	OMe	OEt	OH	H	H	F	H	NMe	Me
I-2367	$-NHCH_2CH=CMe_2$	H	F	H	H	H	OMe	OEt	OH	H	H	F	H	O	$-CH_2CH=CMe_2$
I-2368	$-NHCH_2CH=CMe_2$	H	F	H	H	H	OMe	OEt	OH	H	H	F	H	O	$-CH_2CH=CCl_2$
I-2369	$-NHCH_2CH=CMe_2$	H	F	H	H	H	OMe	OEt	OH	H	H	H	OEt	NH	$-CH_2CH=CMe_2$
I-2370	$-NHCH_2CH=CMe_2$	H	F	H	H	H	OMe	OEt	OH	H	H	H	OEt	NH	$-(CH_2)_2CHMe_2$
I-2371	$-NHCH_2CH=CMe_2$	H	F	H	H	H	OMe	OEt	OH	H	H	H	OEt	NMe	Me
I-2372	$-NHCH_2CH=CMe_2$	H	F	H	H	H	OMe	OEt	OH	H	H	H	OEt	O	$-CH_2CH=CMe_2$
I-2373	$-NHCH_2CH=CMe_2$	H	F	H	H	H	OMe	OEt	OH	H	H	H	OEt	O	$-CH_2CH=CCl_2$
I-2374	$-NH_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OMe	NH	$-CH_2CH=CMe_2$
I-2375	$-NH_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OMe	NH	$-(CH_2)_2CHMe_2$

Table 317

I-2376	-NH$_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OMe	NMe	Me
I-2377	-NH$_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OMe	O	-CH$_2$CH=CMe$_2$
I-2378	-NH$_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OMe	O	-CH$_2$CH=CCl$_2$
I-2379	-NH$_2$	H	F	H	H	Me	Me	Me	H	H	H	F	H	NH	-CH$_2$CH=CMe$_2$
I-230	-NH$_2$	H	F	H	H	Me	Me	Me	H	H	H	F	H	NH	-(CH$_2$)$_2$CHMe$_2$
I-2381	-NH$_2$	H	F	H	H	Me	Me	Me	H	H	H	F	H	NMe	Me
I-2382	-NH$_2$	H	F	H	H	Me	Me	Me	H	H	H	F	H	O	-CH$_2$CH=CMe$_2$
I-2383	-NH$_2$	H	F	H	H	Me	Me	Me	H	H	H	F	H	O	-CH$_2$CH=CCl$_2$
I-2384	-NH$_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OEt	NH	-CH$_2$CH=CMe$_2$
I-2385	-NH$_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OEt	NH	-(CH$_2$)$_2$CHMe$_2$
I-2386	-NH$_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OEt	NMe	Me
I-2387	-NH$_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OEt	O	-CH$_2$CH=CMe$_2$
I-2388	-NH$_2$	H	F	H	H	Me	Me	Me	H	H	H	H	OEt	O	-CH$_2$CH=CCl$_2$
I-2389	-NH$_2$	H	F	H	H	H	Me	OMe	OH	H	H	H	OMe	NH	-CH$_2$CH=CMe$_2$
I-2390	-NH$_2$	H	F	H	H	H	Me	OMe	OH	H	H	H	OMe	NH	-(CH$_2$)$_2$CHMe$_2$
I-2391	-NH$_2$	H	F	H	H	H	Me	OMe	OH	H	H	H	OMe	NMe	Me
I-2392	-NH$_2$	H	F	H	H	H	Me	OMe	OH	H	H	H	OMe	O	-CH$_2$CH=CMe$_2$
I-2393	-NH$_2$	H	F	H	H	H	Me	OMe	OH	H	H	H	OMe	O	-CH$_2$CH=CCl$_2$
I-2394	-NH$_2$	H	F	H	H	H	Me	OMe	OH	H	H	F	H	NH	-CH$_2$CH=CMe$_2$
I-2395	-NH$_2$	H	F	H	H	H	Me	OMe	OH	H	H	F	H	NH	-(CH$_2$)$_2$CHMe$_2$
I-2396	-NH$_2$	H	F	H	H	H	Me	OMe	OH	H	H	F	H	NMe	Me

Table 318

I-2397	-NH_2	H	F	H	H	H	Me	OMe	OH	H	H	F	H	O	-$CH_2CH=CMe_2$
I-2398	-NH_2	H	F	H	H	H	Me	OMe	OH	H	H	F	H	O	-$CH_2CH=CCl_2$
I-2399	-NH_2	H	F	H	H	H	Me	OMe	OH	H	H	H	OEt	NH	-$CH_2CH=CMe_2$
I-2400	-NH_2	H	F	H	H	H	Me	OMe	OH	H	H	H	OEt	NH	-$(CH_2)_2CHMe_2$
I-2301	-NH_2	H	F	H	H	H	Me	OMe	OH	H	H	H	OEt	NMe	Me
I-2302	-NH_2	H	F	H	H	H	Me	OMe	OH	H	H	H	OEt	O	-$CH_2CH=CMe_2$
I-2303	-NH_2	H	F	H	H	H	Me	OMe	OH	H	H	H	OEt	O	-$CH_2CH=CCl_2$
I-2304	-NH_2	H	F	H	H	Me	H	Me	OH	H	H	H	OMe	NH	-$CH_2CH=CMe_2$
I-2305	-NH_2	H	F	H	H	Me	H	Me	OH	H	H	H	OMe	NH	-$(CH_2)_2CHMe_2$
I-2306	-NH_2	H	F	H	H	Me	H	Me	OH	H	H	H	OMe	NMe	Me
I-237	-NH_2	H	F	H	H	Me	H	Me	OH	H	H	H	OMe	O	-$CH_2CH=CMe_2$
I-2308	-NH_2	H	F	H	H	Me	H	Me	OH	H	H	H	OMe	O	-$CH_2CH=CCl_2$
I-2309	-NH_2	H	F	H	H	Me	H	Me	OH	H	H	F	H	NH	-$CH_2CH=CMe_2$
I-2310	-NH_2	H	F	H	H	Me	H	Me	OH	H	H	F	H	NH	-$(CH_2)_2CHMe_2$
I-2311	-NH_2	H	F	H	H	Me	H	Me	OH	H	H	F	H	NMe	Me
I-2312	-NH_2	H	F	H	H	Me	H	Me	OH	H	H	F	H	O	-$CH_2CH=CMe_2$
I-2313	-NH_2	H	F	H	H	Me	H	Me	OH	H	H	F	H	O	-$CH_2CH=CCl_2$
I-2314	-NH_2	H	F	H	H	Me	H	Me	OH	H	H	H	OEt	NH	-$CH_2CH=CMe_2$
I-2315	-NH_2	H	F	H	H	Me	H	Me	OH	H	H	H	OEt	NH	-$(CH_2)_2CHMe_2$
I-236	-NH_2	H	F	H	H	Me	H	Me	OH	H	H	H	OEt	NMe	Me
I-237	-NH_2	H	F	H	H	Me	H	Me	OH	H	H	H	OEt	O	-$CH_2CH=CMe_2$

Table 319

I-2318	$-NH_2$	H	F	H	H	Me	H	Me	OH	H	H	H	OEt	O	$-CH_2CH=CCl_2$
I-2319	$-NH_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OMe	NH	$-CH_2CH=CMe_2$
I-230	$-NH_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OMe	NH	$-(CH_2)_2CHMe_2$
I-2321	$-NH_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OMe	NMe	Me
I-2322	$-NH_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OMe	O	$-CH_2CH=CMe_2$
I-2323	$-NH_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OMe	O	$-CH_2CH=CCl_2$
I-2324	$-NH_2$	H	F	H	H	H	Me	Me	Me	H	H	F	H	NH	$-CH_2CH=CMe_2$
I-2325	$-NH_2$	H	F	H	H	H	Me	Me	Me	H	H	F	H	NH	$-(CH_2)_2CHMe_2$
I-236	$-NH_2$	H	F	H	H	H	Me	Me	Me	H	H	F	H	NMe	Me
I-2327	$-NH_2$	H	F	H	H	H	Me	Me	Me	H	H	F	H	O	$-CH_2CH=CMe_2$
I-2328	$-NH_2$	H	F	H	H	H	Me	Me	Me	H	H	F	H	O	$-CH_2CH=CCl_2$
I-2329	$-NH_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OEt	NH	$-CH_2CH=CMe_2$
I-2330	$-NH_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OEt	NH	$-(CH_2)_2CHMe_2$
I-2331	$-NH_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OEt	NMe	Me
I-2332	$-NH_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OEt	O	$-CH_2CH=CMe_2$
I-2333	$-NH_2$	H	F	H	H	H	Me	Me	Me	H	H	H	OEt	O	$-CH_2CH=CCl_2$
I-2334	$-NH_2$	H	F	H	H	H	OMe	OEt	OH	H	H	H	OMe	NH	$-CH_2CH=CMe_2$
I-2335	$-NH_2$	H	F	H	H	H	OMe	OEt	OH	H	H	H	OMe	NH	$-(CH_2)_2CHMe_2$
I-2336	$-NH_2$	H	F	H	H	H	OMe	OEt	OH	H	H	H	OMe	NMe	Me
I-2337	$-NH_2$	H	F	H	H	H	OMe	OEt	OH	H	H	H	OMe	O	$-CH_2CH=CMe_2$
I-2338	$-NH_2$	H	F	H	H	H	OMe	OEt	OH	H	H	H	OMe	O	$-CH_2CH=CCl_2$

Table 320

I-2339	-NH_2	H	F	H	H	H	OMe	OEt	OH	H	H	F	H	NH	-$CH_2CH=CMe_2$
I-2340	-NH_2	H	F	H	H	H	OMe	OEt	OH	H	H	F	H	NH	-$(CH_2)_2CHMe_2$
I-2341	-NH_2	H	F	H	H	H	OMe	OEt	OH	H	H	F	H	NMe	Me
I-2342	-NH_2	H	F	H	H	H	OMe	OEt	OH	H	H	F	H	O	-$CH_2CH=CMe_2$
I-2343	-NH_2	H	F	H	H	H	OMe	OEt	OH	H	H	F	H	O	-$CH_2CH=CCl_2$
I-2344	-NH_2	H	F	H	H	H	OMe	OEt	OH	H	H	H	OEt	NH	-$CH_2CH=CMe_2$
I-2345	-NH_2	H	F	H	H	H	OMe	OEt	OH	H	H	H	OEt	NH	-$(CH_2)_2CHMe_2$
I-2346	-NH_2	H	F	H	H	H	OMe	OEt	OH	H	H	H	OEt	NMe	Me
I-2347	-NH_2	H	F	H	H	H	OMe	OEt	OH	H	H	H	OEt	O	-$CH_2CH=CMe_2$
I-2348	-NH_2	H	F	H	H	H	OMe	OEt	OH	H	H	H	OEt	O	-$CH_2CH=CCl_2$
I-2349	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	Me	Me	H	H	H	H	OMe	NH	-$CH_2CH=CMe_2$
I-2350	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	Me	Me	H	H	H	H	OMe	NH	-$(CH_2)_2CHMe_2$
I-2351	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	Me	Me	H	H	H	H	OMe	NMe	Me
I-2352	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	Me	Me	H	H	H	H	OMe	O	-$CH_2CH=CMe_2$
I-2353	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	Me	Me	H	H	H	H	OMe	O	-$CH_2CH=CCl_2$
I-2354	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	Me	Me	H	H	H	F	H	NH	-$CH_2CH=CMe_2$
I-2355	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	Me	Me	H	H	H	F	H	NH	-$(CH_2)_2CHMe_2$
I-2356	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	Me	Me	H	H	H	F	H	NMe	Me
I-2357	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	Me	Me	H	H	H	F	H	O	-$CH_2CH=CMe_2$
I-238	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	Me	Me	H	H	H	F	H	O	-$CH_2CH=CCl_2$
I-2359	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	Me	Me	H	H	H	H	OEt	NH	-$CH_2CH=CMe_2$

Table 321

I-2360	$-NHCH_2CH=CMe_2$	H	H	H	H	Me	Me	Me	H	H	H	H	OEt	NH	$-(CH_2)_2CHMe_2$
I-2361	$-NHCH_2CH=CMe_2$	H	H	H	H	Me	Me	Me	H	H	H	H	OEt	NMe	Me
I-2362	$-NHCH_2CH=CMe_2$	H	H	H	H	Me	Me	Me	H	H	H	H	OEt	O	$-CH_2CH=CMe_2$
I-2363	$-NHCH_2CH=CMe_2$	H	H	H	H	Me	Me	Me	H	H	H	H	OEt	O	$-CH_2CH=CCl_2$
I-2364	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	OMe	OH	H	H	H	OMe	NH	$-CH_2CH=CMe_2$
I-2365	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	OMe	OH	H	H	H	OMe	NH	$-(CH_2)_2CHMe_2$
I-2366	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	OMe	OH	H	H	H	OMe	NMe	Me
I-2367	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	OMe	OH	H	H	H	OMe	O	$-CH_2CH=CMe_2$
I-2368	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	OMe	OH	H	H	H	OMe	O	$-CH_2CH=CCl_2$
I-2369	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	OMe	OH	H	H	F	H	NH	$-CH_2CH=CMe_2$
I-2370	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	OMe	OH	H	H	F	H	NH	$-(CH_2)_2CHMe_2$
I-2371	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	OMe	OH	H	H	F	H	NMe	Me
I-2372	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	OMe	OH	H	H	F	H	O	$-CH_2CH=CMe_2$
I-2373	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	OMe	OH	H	H	F	H	O	$-CH_2CH=CCl_2$
I-2374	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	OMe	OH	H	H	H	OEt	NH	$-CH_2CH=CMe_2$
I-2375	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	OMe	OH	H	H	H	OEt	NH	$-(CH_2)_2CHMe_2$
I-2376	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	OMe	OH	H	H	H	OEt	NMe	Me
I-2377	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	OMe	OH	H	H	H	OEt	O	$-CH_2CH=CMe_2$
I-2378	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	OMe	OH	H	H	H	OEt	O	$-CH_2CH=CCl_2$
I-2379	$-NHCH_2CH=CMe_2$	H	H	H	H	Me	H	Me	OH	H	H	H	OMe	NH	$-CH_2CH=CMe_2$
I-2380	$-NHCH_2CH=CMe_2$	H	H	H	H	Me	H	Me	OH	H	H	H	OMe	NH	$-(CH_2)_2CHMe_2$

Table 322

I-2381	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	H	Me	OH	H	H	H	OMe	NMe	Me
I-2382	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	H	Me	OH	H	H	H	OMe	O	-$CH_2CH=CMe_2$
I-2383	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	H	Me	OH	H	H	H	OMe	O	-$CH_2CH=CCl_2$
I-2384	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	H	Me	OH	H	H	F	H	NH	-$CH_2CH=CMe_2$
I-2385	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	H	Me	OH	H	H	F	H	NH	-$(CH_2)_2CHMe_2$
I-236	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	H	Me	OH	H	H	F	H	NMe	Me
I-2387	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	H	Me	OH	H	H	F	H	O	-$CH_2CH=CMe_2$
I-2388	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	H	Me	OH	H	H	F	H	O	-$CH_2CH=CCl_2$
I-2389	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	H	Me	OH	H	H	H	OEt	NH	-$CH_2CH=CMe_2$
I-2390	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	H	Me	OH	H	H	H	OEt	NH	-$(CH_2)_2CHMe_2$
I-2391	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	H	Me	OH	H	H	H	OEt	NMe	Me
I-2392	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	H	Me	OH	H	H	H	OEt	O	-$CH_2CH=CMe_2$
I-2393	-$NHCH_2CH=CMe_2$	H	H	H	H	Me	H	Me	OH	H	H	H	OEt	O	-$CH_2CH=CCl_2$
I-2394	-$NHCH_2CH=CMe_2$	H	H	H	H	H	Me	Me	Me	H	H	H	OMe	NH	-$CH_2CH=CMe_2$
I-2395	-$NHCH_2CH=CMe_2$	H	H	H	H	H	Me	Me	Me	H	H	H	OMe	NH	-$(CH_2)_2CHMe_2$
I-2396	-$NHCH_2CH=CMe_2$	H	H	H	H	H	Me	Me	Me	H	H	H	OMe	NMe	Me
I-2397	-$NHCH_2CH=CMe_2$	H	H	H	H	H	Me	Me	Me	H	H	H	OMe	O	-$CH_2CH=CMe_2$
I-2398	-$NHCH_2CH=CMe_2$	H	H	H	H	H	Me	Me	Me	H	H	H	OMe	O	-$CH_2CH=CCl_2$
I-2399	-$NHCH_2CH=CMe_2$	H	H	H	H	H	Me	Me	Me	H	H	F	H	NH	-$CH_2CH=CMe_2$
I-2400	-$NHCH_2CH=CMe_2$	H	H	H	H	H	Me	Me	Me	H	H	F	H	NH	-$(CH_2)_2CHMe_2$
I-2401	-$NHCH_2CH=CMe_2$	H	H	H	H	H	Me	Me	Me	H	H	F	H	NMe	Me

Table 323

I-2402	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	Me	Me	H	H	F	H	O	$-CH_2CH=CMe_2$
I-2403	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	Me	Me	H	H	F	H	O	$-CH_2CH=CCl_2$
I-2404	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	Me	Me	H	H	H	OEt	NH	$-CH_2CH=CMe_2$
I-2405	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	Me	Me	H	H	H	OEt	NH	$-(CH_2)_2CHMe_2$
I-2406	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	Me	Me	H	H	H	OEt	NMe	Me
I-2407	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	Me	Me	H	H	H	OEt	O	$-CH_2CH=CMe_2$
I-2408	$-NHCH_2CH=CMe_2$	H	H	H	H	H	Me	Me	Me	H	H	H	OEt	O	$-CH_2CH=CCl_2$
I-2409	$-NHCH_2CH=CMe_2$	H	H	H	H	H	OMe	OEt	OH	H	H	H	OMe	NH	$-CH_2CH=CMe_2$
I-2410	$-NHCH_2CH=CMe_2$	H	H	H	H	H	OMe	OEt	OH	H	H	H	OMe	NH	$-(CH_2)_2CHMe_2$
I-2411	$-NHCH_2CH=CMe_2$	H	H	H	H	H	OMe	OEt	OH	H	H	H	OMe	NMe	Me
I-2412	$-NHCH_2CH=CMe_2$	H	H	H	H	H	OMe	OEt	OH	H	H	H	OMe	O	$-CH_2CH=CMe_2$
I-2413	$-NHCH_2CH=CMe_2$	H	H	H	H	H	OMe	OEt	OH	H	H	H	OMe	O	$-CH_2CH=CCl_2$
I-2414	$-NHCH_2CH=CMe_2$	H	H	H	H	H	OMe	OEt	OH	H	H	F	H	NH	$-CH_2CH=CMe_2$
I-2415	$-NHCH_2CH=CMe_2$	H	H	H	H	H	OMe	OEt	OH	H	H	F	H	NH	$-(CH_2)_2CHMe_2$
I-2416	$-NHCH_2CH=CMe_2$	H	H	H	H	H	OMe	OEt	OH	H	H	F	H	NMe	Me
I-2417	$-NHCH_2CH=CMe_2$	H	H	H	H	H	OMe	OEt	OH	H	H	F	H	O	$-CH_2CH=CMe_2$
I-2418	$-NHCH_2CH=CMe_2$	H	H	H	H	H	OMe	OEt	OH	H	H	F	H	O	$-CH_2CH=CCl_2$
I-2419	$-NHCH_2CH=CMe_2$	H	H	H	H	H	OMe	OEt	OH	H	H	H	OEt	NH	$-CH_2CH=CMe_2$
I-2420	$-NHCH_2CH=CMe_2$	H	H	H	H	H	OMe	OEt	OH	H	H	H	OEt	NH	$-(CH_2)_2CHMe_2$
I-2421	$-NHCH_2CH=CMe_2$	H	H	H	H	H	OMe	OEt	OH	H	H	H	OEt	NMe	Me
I-2422	$-NHCH_2CH=CMe_2$	H	H	H	H	H	OMe	OEt	OH	H	H	H	OEt	O	$-CH_2CH=CMe_2$

Table 324

I-2423	-NHCH$_2$CH=CMe$_2$	H	H	H	H	H	OMe	OEt	OH	H	H	H	OEt	O	-CH$_2$CH=CCl$_2$
I-2424	-OMe	H	H	H	H	Me	Me	Me	H	H	H	H	OMe	NH	-CH$_2$CH=CMe$_2$
I-2425	-OMe	H	H	H	H	Me	Me	Me	H	H	H	H	OMe	NH	-(CH$_2$)$_2$CHMe$_2$
I-2426	-OMe	H	H	H	H	Me	Me	Me	H	H	H	H	OMe	NMe	Me
I-2427	-OMe	H	H	H	H	Me	Me	Me	H	H	H	H	OMe	O	-CH$_2$CH=CMe$_2$
I-2428	-OMe	H	H	H	H	Me	Me	Me	H	H	H	H	OMe	O	-CH$_2$CH=CCl$_2$
I-2429	-OMe	H	H	H	H	Me	Me	Me	H	H	H	F	H	NH	-CH$_2$CH=CMe$_2$
I-2430	-OMe	H	H	H	H	Me	Me	Me	H	H	H	F	H	NH	-(CH$_2$)$_2$CHMe$_2$
I-2431	-OMe	H	H	H	H	Me	Me	Me	H	H	H	F	H	NMe	Me
I-2432	-OMe	H	H	H	H	Me	Me	Me	H	H	H	F	H	O	-CH$_2$CH=CMe$_2$
I-2433	-OMe	H	H	H	H	Me	Me	Me	H	H	H	F	H	O	-CH$_2$CH=CCl$_2$
I-2434	-OMe	H	H	H	H	Me	Me	Me	H	H	H	H	OEt	NH	-CH$_2$CH=CMe$_2$
I-2435	-OMe	H	H	H	H	Me	Me	Me	H	H	H	H	OEt	NH	-(CH$_2$)$_2$CHMe$_2$
I-2436	-OMe	H	H	H	H	Me	Me	Me	H	H	H	H	OEt	NMe	Me
I-2437	-OMe	H	H	H	H	Me	Me	Me	H	H	H	H	OEt	O	-CH$_2$CH=CMe$_2$
I-2438	-OMe	H	H	H	H	Me	Me	Me	H	H	H	H	OEt	O	-CH$_2$CH=CCl$_2$
I-2439	-OMe	H	H	H	H	H	Me	OMe	OH	H	H	H	OMe	NH	-CH$_2$CH=CMe$_2$
I-2440	-OMe	H	H	H	H	H	Me	OMe	OH	H	H	H	OMe	NH	-(CH$_2$)$_2$CHMe$_2$
I-2441	-OMe	H	H	H	H	H	Me	OMe	OH	H	H	H	OMe	NMe	Me
I-2442	-OMe	H	H	H	H	H	Me	OMe	OH	H	H	H	OMe	O	-CH$_2$CH=CMe$_2$
I-2443	-OMe	H	H	H	H	H	Me	OMe	OH	H	H	H	OMe	O	-CH$_2$CH=CCl$_2$

Table 325

I-2444	-OMe	H	H	H	H	H	Me	OMe	OH	H	H	F	H	NH	$-CH_2CH=CMe_2$
I-2445	-OMe	H	H	H	H	H	Me	OMe	OH	H	H	F	H	NH	$-(CH_2)_2CHMe_2$
I-2446	-OMe	H	H	H	H	H	Me	OMe	OH	H	H	F	H	NMe	Me
I-2447	-OMe	H	H	H	H	H	Me	OMe	OH	H	H	F	H	O	$-CH_2CH=CMe_2$
I-2448	-OMe	H	H	H	H	H	Me	OMe	OH	H	H	F	H	O	$-CH_2CH=CCl_2$
I-2449	-OMe	H	H	H	H	H	Me	OMe	OH	H	H	H	OEt	NH	$-CH_2CH=CMe_2$
I-2450	-OMe	H	H	H	H	H	Me	OMe	OH	H	H	H	OEt	NH	$-(CH_2)_2CHMe_2$
I-2451	-OMe	H	H	H	H	H	Me	OMe	OH	H	H	H	OEt	NMe	Me
I-2452	-OMe	H	H	H	H	H	Me	OMe	OH	H	H	H	OEt	O	$-CH_2CH=CMe_2$
I-2453	-OMe	H	H	H	H	H	Me	OMe	OH	H	H	H	OEt	O	$-CH_2CH=CCl_2$
I-2454	-OMe	H	H	H	H	Me	H	Me	OH	H	H	H	OMe	NH	$-CH_2CH=CMe_2$
I-2455	-OMe	H	H	H	H	Me	H	Me	OH	H	H	H	OMe	NH	$-(CH_2)_2CHMe_2$
I-2456	-OMe	H	H	H	H	Me	H	Me	OH	H	H	H	OMe	NMe	Me
I-2457	-OMe	H	H	H	H	Me	H	Me	OH	H	H	H	OMe	O	$-CH_2CH=CMe_2$
I-2458	-OMe	H	H	H	H	Me	H	Me	OH	H	H	H	OMe	O	$-CH_2CH=CCl_2$
I-2459	-OMe	H	H	H	H	Me	H	Me	OH	H	H	F	H	NH	$-CH_2CH=CMe_2$
I-2460	-OMe	H	H	H	H	Me	H	Me	OH	H	H	F	H	NH	$-(CH_2)_2CHMe_2$
I-2461	-OMe	H	H	H	H	Me	H	Me	OH	H	H	F	H	NMe	Me
I-2462	-OMe	H	H	H	H	Me	H	Me	OH	H	H	F	H	O	$-CH_2CH=CMe_2$
I-2463	-OMe	H	H	H	H	Me	H	Me	OH	H	H	F	H	O	$-CH_2CH=CCl_2$
I-2464	-OMe	H	H	H	H	Me	H	Me	OH	H	H	H	OEt	NH	$-CH_2CH=CMe_2$

Table 326

I-2465	-OMe	H	H	H	H	Me	H	Me	OH	H	H	H	OEt	NH	$-(CH_2)_2CHMe_2$
I-2466	-OMe	H	H	H	H	Me	H	Me	OH	H	H	H	OEt	NMe	Me
I-2467	-OMe	H	H	H	H	Me	H	Me	OH	H	H	H	OEt	O	$-CH_2CH=CMe_2$
I-2468	-OMe	H	H	H	H	Me	H	Me	OH	H	H	H	OEt	O	$-CH_2CH=CCl_2$
I-2469	-OMe	H	H	H	H	H	Me	Me	Me	H	H	H	OMe	NH	$-CH_2CH=CMe_2$
I-2470	-OMe	H	H	H	H	H	Me	Me	Me	H	H	H	OMe	NH	$-(CH_2)_2CHMe_2$
I-2471	-OMe	H	H	H	H	H	Me	Me	Me	H	H	H	OMe	NMe	Me
I-2472	-OMe	H	H	H	H	H	Me	Me	Me	H	H	H	OMe	O	$-CH_2CH=CMe_2$
I-2473	-OMe	H	H	H	H	H	Me	Me	Me	H	H	H	OMe	O	$-CH_2CH=CCl_2$
I-2474	-OMe	H	H	H	H	H	Me	Me	Me	H	H	F	H	NH	$-CH_2CH=CMe_2$
I-2475	-OMe	H	H	H	H	H	Me	Me	Me	H	H	F	H	NH	$-(CH_2)_2CHMe_2$
I-2476	-OMe	H	H	H	H	H	Me	Me	Me	H	H	F	H	NMe	Me
I-2477	-OMe	H	H	H	H	H	Me	Me	Me	H	H	F	H	O	$-CH_2CH=CMe_2$
I-2478	-OMe	H	H	H	H	H	Me	Me	Me	H	H	F	H	O	$-CH_2CH=CCl_2$
I-2479	-OMe	H	H	H	H	H	Me	Me	Me	H	H	H	OEt	NH	$-CH_2CH=CMe_2$
I-2480	-OMe	H	H	H	H	H	Me	Me	Me	H	H	H	OEt	NH	$-(CH_2)_2CHMe_2$
I-2481	-OMe	H	H	H	H	H	Me	Me	Me	H	H	H	OEt	NMe	Me
I-2482	-OMe	H	H	H	H	H	Me	Me	Me	H	H	H	OEt	O	$-CH_2CH=CMe_2$
I-2483	-OMe	H	H	H	H	H	Me	Me	Me	H	H	H	OEt	O	$-CH_2CH=CCl_2$
I-2484	-OMe	H	H	H	H	H	OMe	OEt	OH	H	H	H	OMe	NH	$-CH_2CH=CMe_2$
I-2485	-OMe	H	H	H	H	H	OMe	OEt	OH	H	H	H	OMe	NH	$-(CH_2)_2CHMe_2$

Table 327

1-2486	-OMe	H	H	H	H	H	OMe	OEt	OH	H	H	H	OMe	NMe	Me
1-2487	-OMe	H	H	H	H	H	OMe	OEt	OH	H	H	H	OMe	O	$-CH_2CH=CMe_2$
1-2488	-OMe	H	H	H	H	H	OMe	OEt	OH	H	H	H	OMe	O	$-CH_2CH=CCl_2$
1-2489	-OMe	H	H	H	H	H	OMe	OEt	OH	H	H	F	H	NH	$-CH_2CH=CMe_2$
1-2490	-OMe	H	H	H	H	H	OMe	OEt	OH	H	H	F	H	NH	$-(CH_2)_2CHMe_2$
1-2491	-OMe	H	H	H	H	H	OMe	OEt	OH	H	H	F	H	NMe	Me
1-2492	-OMe	H	H	H	H	H	OMe	OEt	OH	H	H	F	H	O	$-CH_2CH=CMe_2$
1-2493	-OMe	H	H	H	H	H	OMe	OEt	OH	H	H	F	H	O	$-CH_2CH=CCl_2$
1-2494	-OMe	H	H	H	H	H	OMe	OEt	OH	H	H	H	OEt	NH	$-CH_2CH=CMe_2$
1-2495	-OMe	H	H	H	H	H	OMe	OEt	OH	H	H	H	OEt	NH	$-(CH_2)_2CHMe_2$
1-2496	-OMe	H	H	H	H	H	OMe	OEt	OH	H	H	H	OEt	NMe	Me
1-2497	-OMe	H	H	H	H	H	OMe	OEt	OH	H	H	H	OEt	O	$-CH_2CH=CMe_2$
1-2498	-OMe	H	H	H	H	H	OMe	OEt	OH	H	H	H	OEt	O	$-CH_2CH=CCl_2$

[0167] In the above tables, "$-OCH_2O-$*" and "*" mean that they taken together form a ring.

Experiment 1 Suppressive effect on a mitogenic activity of mouse splenocytes *in vitro*

[0168] In 96-well microtiter plate 5 x 10^5 C3H/HeN mouse splenocytes suspended in 0.1 ml of 10 % fetal bovine serum-fortified RPMI 1640 medium containing 2 mM of sodium bicarbonate, 50 units/ml of penicillin, 50 μg/ml of streptomycin and 5 x 10^{-5} M of 2-mercaptoethanol were added. Then, 5 μg/ml of Concanavalin A (Con A) or 10 μg/ml of lipopolysaccharide (LPS) as a mitogen and the compound of a pre-determined concentration of the present invention were added to each well so that a final volume of each well reached 0.2 ml. Each compound of the present invention was dissolved in dimethylsulfoxide (DMSO) and diluted with the above RPMI 1640 medium to adjust the final concentration of 100 ng/ml or less. The splenocytes in the 96-well microtiter plate were cultivated at 37 °C for 3 days in an incubator keeping the humidity 100 %, carbon dioxide 5 % and air 95 %. Then, 25 μl of 6 mg/ml MTT [3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide] (Sigma) was added to the each well and cultivated at 37 °C for 4 hours under the same conditions. After the cultivation, 50 μl of 0.02 N hydrochloric acid in 20 % sodium dodecyl sulfate (SDS) was added to formazan generated and left at 37 °C for 24 hours for dissolving formazan. An absorption intensity (OD) of formazan generated in proportion to the number of living cells was measured with an immunoreader (InterMed) equipped with a 570 nm filter (The Journal of Immunological Method, 65, 55-63, 1983). The 50 % inhibitory concentration of a cell proliferation (IC 50) was calculated from a correlation between the concentration of the compound of the present invention and the absorption intensity.

Experiment 2 Anti-proliferative activity on EL4 cells

[0169] In 96-well microtiter plate 4 x 10^4/ 0.1 ml of mouse thymoma strain EL4 cells were added and 0.1 ml of the compound of the present invention was added to the mixture so that the concentration was in the range of 0-5,000 ng/ml. After the cultivation for 3 days, the IC_{50} was calculated by the MTT method as described in Experiment 1.

[0170] The results are shown in Tables 328-329.

Table 328

Compound	ConA IC_{50} (ng/ml)	LPS IC_{50} (ng/ml)	EL-4 IC_{50} (ng/ml)
I-1	0.86	1.92	8.56
I-9	<20	<20	<20
I-12	1.3	2.8	46.2
I-22	5.62	4.26	6.2
I-35	19.5	39.4	140
I-40	6.1	16.5	37.4
I-41	0.73	1.74	4.89
I-46	10.6	23.9	67.5
I-49	8.89	16.2	31.7
I-50	3.83	9.2	11.9
I-51	6.6	14.7	70.0
I-59	8.5	22.4	140
I-62	29.2	25	23.4
I-63	13	27	16
I-66	0.22	0.35	0.48
I-71	4.56	14.2	31.2
I-101	0.8	0.5	1.8
I-103	3.4	3.7	4.6
I-104	3.0	3.1	4.8
I-106	0.6	0.4	2.7
I-107	0.6	0.7	12
I-121	0.8	1.2	0.8
I-163	<20	<20	<20
I-173	<20	<20	<20
I-175	<20	29.4	<20
I-187	12.0	25.1	36.2
I-211	<20	<20	<20
I-248	<10	<10	312
I-250	<10	<10	88.3
I-251	<10	<10	97.4
I-255	<20	<20	<20
I-256	<20	28.7	310
I-275	6.34	13.5	100
I-276	1.8	3.1	200
I-299	5.53	7.85	13.6
I-301	7.06	11.0	15.8
I-360	<20	<20	99.8
I-361	<20	<20	124
I-418	255	497	>10000
I-427	255	497	>10000
I-457	<20	<20	205
I-466	<20	<20	46
I-484	14.7	32.2	91.4
I-513	6.89	11.1	61.8
I-525	0.76	1.11	5.0
I-639	4.59	6.25	50
I-661	0.67	1.28	50
I-739	18.8	20.7	430
I-742	10	20	45.2
I-758	6.78	9.63	55.1
I-773	8.45	12.6	92.9
I-797	1.75	3.71	26.5
I-834	36	46	226
I-839	1.48	1.87	20.7
I-840	5.31	6.94	31.9
I-878	14.1	27.4	194
I-880	23.0	41.1	105
I-892	<0.2	<0.2	1.41
I-893	0.49	1.05	7.06

Table 329

Compound	ConA IC_{50} (ng/ml)	LPS IC_{50} (ng/ml)	EL-4 IC_{50} (ng/ml)
I-907	23.4	44.5	82.7
I-908	0.45	0.86	3.50
I-909	<20	<20	20
I-931	2.93	5.76	4.37
I-934	16.1	22.2	52.7
I-943	2.97	4.89	46.8
I-962	12.1	16.3	20.4
I-970	<20	<20	50.3
I-976	17.7	34.2	330
I-981	14.9	27.1	>100
I-982	2.0	3.75	55.3
I-988	0.2	0.31	1.23
I-993	5.10	7.54	13.8
I-995	20.9	25.2	49.2
I-1006	8.66	12.3	33.0
I-1007	8.05	10.4	13.1
I-1017	9.74	16.7	72.9
I-1031	<20	21.2	41.7
I-1040	1.80	5.31	1.85
I-1043	2.19	3.27	9.70
I-1058	21.2	30.2	48.8
I-1066	3.91	4.87	20.6
I-1095	6.90	9.57	34.2
I-1103	4.7	6.9	31.4
I-1107	5.8	9.1	34.1
I-1115	<20	<20	<20
I-1121	3.12	9.0	18.6
I-1123	0.80	2.00	3.9
I-1124	94	272	>10000
I-1126	79	234	>10000
I-1127	44	111	412
I-1128	5.00	11.4	26.0
I-1135	1.00	2.70	11.7
I-1160	10.6	14.1	97.4
I-1161	2.4	4.2	33.2
I-1162	0.65	1.95	30.9
I-1167	0.08	0.23	8.1
I-1168	0.26	0.54	12.5
I-1171	0.63	0.64	27.5
I-1172	13.1	19.4	>100
I-1173	16.4	31.1	>100
I-1177	12.2	20.8	47.2
I-1191	0.16	0.66	22.8
I-1193	1.46	5.3	50
I-1203	14.1	>100	43.5
I-1212	12.87	24.2	85.0
I-1217	<20	<20	<20
I-1227	197	423	>10000
I-1229	5.95	8.05	20.4
I-1230	12.0	15.3	5.22
I-1232	3.77	4.93	15.1
I-1240	2.50	3.34	11.8
I-1248	25.9	36.8	118
I-1250	0.68	1.35	2.90
I-1251	6.30	10.7	27.8
I-1263	<20	<20	29.8
I-1271	0.10	0.32	1.66
I-1274	0.33	1.38	1.44
I-1276	<20	31.3	105
I-1277	<20	<20	<20
I-1278	<20	<20	41.7
I-1284	<20	<20	<20
I-1286	<20	<20	<20
I-1289	<20	<20	<20
I-1290	<20	<20	27.3
I-1295	<20	<20	<20
I-1296	<20	<20	39.7

[0171] As shown in the above, the compound of the present invention has immunosuppressive and anti-allergic effects.

Experiment 3 Suppressive effect on the antibody production against bovine γ globulin (BGG)

[0172] On an immunizing day and 7 days after, 50 μg of BGG was subcutaneously inoculated to backs of BALB/c mice (male, 6-8 weeks old) for inducing an immune reaction. After the compound of the present invention was dissolved or suspended in N, N-dimethylacetoamide, the mixture was diluted with miglyol 812 neutral oil. A proper volume of the compound was orally administered (p.o.) to mice every day from the next day of the immunizing. A two hundredth weight to body weight of miglyol was administered to mice in a control group. After 21 days, blood was drawn from each mouse and a serum was separated. BGG-specific IgE in a serum was measured by the sandwich ELISA method using a BGG-coating plate. The suppressive rate of IgE production was calculated from the dilution rate of the serum which has the same absorption intensity as that of the control group for judging the effect of the compound of the present invention. The results are shown in Table 330.

Table 330

Compound	Dose (mg/kg)	Suppressive rate of antigen-specific IgE (%)
I-525	100	>95
I-915	100	>99
I-892	5	>99
I-963	50	>99
I-1031	100	>99
I-1093	100	>99

Experiment 4 Suppressive effect on the IgE production against ovalbumin (OVA)

1) Animals

[0173] BALB/c mice (female, 8-10 weeks old) and Wistar rats (female, 8-10 weeks old) which were bought from Japan SLC, Inc. (Shizuoka) were used.

2) Immunizing method

[0174] BALB/c mice were immunized by an intraperitoneal administration of 0.2 ml suspension of 2 μg of ovalbumin (OVA) and 2 mg of aluminium hydroxide gel in physiological saline. After 10 days, blood was drawn from hearts, sera were separated and stocked at -40 °C till the measurement of an IgE antibody titer.

3) Compounds

[0175] After the compound of the present invention was dissolved or suspended in N, N-dimethylacetoamide, the mixture was diluted 20 times with miglyol 812 neutral oil. The obtained solution was orally administered to mice at 0.1 ml per mouse. The administration was continued for 10 days from the immunizing day to the day before drawing blood. IPD-1151-T (a compound described in Jpn. Pharmacol. (1993) 61, 31-39) and a compound No. 36 (a compound 36 described in J. Med. Chem. (1997) 40: 395-407) were examined as controls by the same method.

4) Measurement of anti-OVA IgE antibody titer (PCA titer)

[0176] The samples 2-fold diluted with physiological saline were prepared from the obtained mouse serum and each 50 μl of the solution was intradermally injected to backs of Wistar rats which previously hair cut. After 24 hours, a passive cutaneous anaphylaxis reaction (PCA) was induced by an intravenous injection of 0.5 ml of physiological saline containing 1 mg of OVA and 5 mg of Evans' blue dye. After 30 minutes, the rats were sacrificed and the highest dilution rate of the serum giving bluing with a diameter of more than 5 mm was recorded as the PCA titer. For example, when a serum is positive for the PCA reaction till 2^7 times dilution, the anti-OVA IgE antibody titer of the mouse is defined as 7. The results are shown in Table 331.

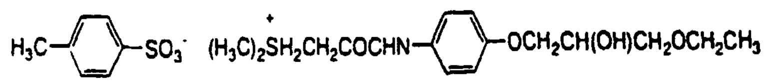
Table 331

Compound	Dose (mg/kg)	PCA Titer
I-484	40	<0
I-839	40	2.4**
I-851	40	1.8**
I-892	40	<0
I-893	40	2.5**
I-908	40	3.4**
I-915	40	<0
I-925	40	1**
I-928	40	<0
I-948	40	2.6**
I-957	40	4.5**
I-962	40	<0
I-963	40	3.6**
I-988	40	0.8**
I-1031	40	4.4**
I-1043	40	4.8**
I-1066	40	<0
I-1072	40	0.8**
I-1095	40	<0
I-1123	40	2.4**
I-1135	40	4.8**
I-1167	40	4.4**
I-1171	40	<0
I-1177	40	3.6**
I-1229	40	<0
I-1232	40	1.8**
I-1242	40	2.8**
I-1258	40	1.2**
I-1271	40	<0
IPD-1151-T	50	9.8
No.36	10	10.4

** • • • P<0.01 vs vehicle

[0177] The PCA ticers of mice in a group to which any compound was not administered were 9-12.

IPD-1151-T • • •



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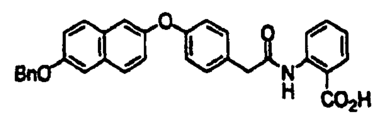


[0179] As shown in the above, the compound of the present invention has a suppressive effect on the antibody production.

Experiment 5 Suppressive effect on the antibody production of human lymphocytes

1. Experimental method

1) Human peripheral blood

[0180] Human peripheral blood was drawn from healthy male adults by plastic syringes filled with heparin (final concentration 1.5%). Lymphocytes were collected immediately after blood was drawn.

2) Medium

[0181] RPMI medium (Nissui Pharmaceutical Co., Ltd.) containing 10% fetal bovine serum (HyClone Lab.) inactivated at 56 °C for 30 minutes, penicillin (100 units/ml) and streptomycin (100 μg/ml) (GIBCO) was used.

3) Compounds

[0182] After the compound (I-839) of the present invention was dissolved in dimethylsulfoxide (Nakaraitesk) at 2 μg/ml, the solution was diluted with the medium to adjust a final concentration to be 0.01 pg/ml - 10 μg/ml. The compound No. 36 was examined as a control by the same method.

4) Human lymphocytes

[0183] Human peripheral blood was stratified in a tube filled with Ficoll-Hypaque mixture solution (Dainippon Pharmaceutical Co., Ltd. (Osaka), Mono-poly resolving medium) at the same volume and centrifuged at 300 x g at 15 °C for 30 minutes to obtain a lymphocytes layer. After the collected cell suspension was washed with sterile Hanks' solution (Nissui Pharmaceutical Co., Ltd.) by centrifugation, sterile distilled water was added to the suspension. After 30 seconds, twice-concentrated Hanks' solution of which amount is equal to the water was added for removal of contaminating erythrocytes. Lymphocytes which were filtered by a nylon mesh and washed by centrifugation were used for experiments as human lymphocytes.

5) Induction of the IgE antibody production by stimulation of B cells

[0184] In 96-well cultivating plate (Sumitomo bakelite) the lymphocytes were inoculated 2×10^5 cells per well, and the compound, anti-human CD 40 antigen (Pharmingen, 2 μg/ml), human recombinant interleukin-4 (IL-4) (Genzyme, 0.1 μg/ml) and human recombinant interleukin-10 (IL-10) (Genzyme, 0.2 μg/ml) were added and cultivated at 37 °C under

5% of CO_2 (0.2 ml/well). After the cultivation for 10 days, the amount of antibody in a supernatant was quantified by ELISA method.

6) Quantification of the IgE antibody

[0185] A commercial kit MESACUP IgE test (Medical & Biological Laboratories Co., Ltd.) was used for the quantification of the IgE. The experiment followed an instruction manual and was carried out in triplicate to calculate the average.

7) Quantification of the IgG and IgM antibodies

[0186] ELISA method was used for the quantification. In 96-well plate (Nunc) 50 μl of 1 μg/ml $F(ab')_2$ Goat Anti-human IgG + A + M (H+L) (ZYMED Laboratories) was added and the plate was coated at 4 °C overnight. The plate was washed twice with 0.05 % Tween/PBS (PBST) solution and 100 μl of 0.5% gelatin/PBST was added for blocking at room temperature for 2 hours. After washing three times with PBST, 100 μl of a sample diluted with PBS or 100 μl of human Plasma IgG standard solution or IgM standard solution (BioPur AG, Switzerland) of a pre-determined concentration was added and incubated at room temperature for 1 hour. After washing three times with PBST, 100 μl of a peroxydase-labeled anti-human IgG antibody or anti-human IgM antibody (Southern Biotechnology, Birmingham) which was diluted two thousandth with PBS was added and incubated at room temperature for 1 hour. After washing four times with PBST, 100 μl of a substrate, o-phenylenediamine dihydrochloride, was added for color development. After 30 minutes, the reaction was terminated by addition of 50 μl of 2 N HCl, and the absorption at 492 nm was measured with a microplate reader and the amount of the IgG and IgM was calculated from a standard curve of a standard solution.

2. Results

[0187] The results are shown in Figures 1 and 2. The compound (I-839) of the present invention has a selective suppressive effect on the IgE antibody production and the intensity was 2,000 times or more of that of the IgG production and 30,000 times or more of that of the IgM. The suppressive effects of the typical compounds on the antibody production are shown in Table 332.

Table 332

Compound	IC_{50} (ng/ml)		
	IgE	IgG	IgM
I-839	<0.00001	0.027	0.37
I-892	<0.00001	<0.00001	>1
I-121	<0.0001	<0.0001	>1
I-988	<0.00001	<0.00001	>1
I-893	<0.00001	<0.0001	>1

Experiment 6 Suppressive effect on antibody production of mouse spleen lymphocytes

1. Experimental method

1) Animals

[0188] BALB/c (nu/nu) mice were bought from Japan SLC, Inc. (Shizuoka) and 7 weeks old-male mice here used.

2) Medium

[0189] RPMI medium (Nissui Pharmaceutical Co., Ltd.) containing 10 % fetal bovine serum (HyClone Lab.) inactivated at 56 °C for 30 minutes, penicillin (100 units/ml) and streptomycin (100 μg/ml) (GIBCO) was used for experiments.

3) Compounds

[0190] Each of the compounds was dissolved in dimethylsulfoxide (Nakaraitesk) at 2 μg/ml and diluted with the medium to adjust a final concentration to 0.1 pg/ml - 10 μg/ml.

4) Mouse spleen lymphocytes

[0191] A spleen of mouse was taken out and put in a cultivating schale which was filled with Hanks' solution. The spleen was crushed and the cells were pushed out from the organ and filtered through a metal mesh (200 mesh). After the collected cell suspension was washed by centrifugation with sterile Hanks' solution (Nissui Pharmaceutical Co., Ltd.), sterile distilled water was added. After 30 seconds, an equal amount of twice-concentrated Hanks' solution was added for removal of contaminating erythrocytes. The cell suspension, filtered by a nylon mesh and washed by centrifugation, were used as mouse spleen lymphocytes for experiments.

5) Induction of the IgE antibody production by the B cell stimulation

[0192] In 96-well cultivating plate (Sumitomo Bakelite Company Limited) mouse spleen lymphocytes were inoculated 2×10^5 cells per well. The compound of the present invention, lipopolysaccharide (DIFCO Lab., 2 μg/ml) and mouse recombinant interleukin-4 (IL-4) (Genzyme, 50 ng/ml) were added to the well and cultivated at 37 °C under 5 % CO_2 (0.2 ml/well). After the cultivation for 10 days, the amount of the antibody in a supernatant was quantified by ELISA method.

6) Quantification of the IgE antibody

[0193] A commercial mouse IgE EIA kit (Yamasa Shoyu Co., Ltd.) was used for the quantification of the IgE. The experiment followed an instruction manual and was carried out in triplicate to calculate the average.

7) Quantification of the IgG1, IgG2a and IgM antibodies

[0194] In 96-well plate 50 μl of 10 μg/ml Goat Anti-Mouse Ig (IgM+G+A, H+L) (Southern Biotechnology, Birmingham) was added and the plate was coated at 4 °C overnight. After the plate was washed twice with a PBST solution, 100 μl of 0.5 % gelatin/PBST was added and the plate was blocked at room temperature for 2 hours. After washing three times with PBST, 100 μl of culture supernatant which was diluted with PBS or 100 μl of an antibody standard solution (Mouse IgG1 standard, Mouse IgG2a standard, Mouse IgM standard, BETHYL Laboratories) of a pre-determined concentration was added and incubated for 1 hour. After washing three times with PBST, 100 μl of diluted solution of alkalinephosphatase-labeled anti-mouse IgG1, IgG2a or IgM antibody (Southern Biotechnology, Birmingham) was added and incubated at room temperature for 1 hour. After washing four times with PBST, a substrate, p-nitrophenyl phosphate disodium, was added, and after 30 minutes-incubation period, after 5 N-NaOH was added to stop the reaction. The absorption at 405 nm was measured with a microplate reader, and the amount of the antibody was calculated from the standard curve. For the dilution of the mouse sample and the standard solution was used 10 % FCS/PBS.

2. Results

[0195] The results are shown in Figure 3. The figure shows that the compound (I-967) has a suppressive effect on the IgG1, IgG2a and IgM antibodies production only at 1000 ng/ml or more but has a dose-dependent suppressive effect on the IgE production at 0.01 ng/ml or more. In Table 333 the suppressive effects of the representative compounds on the IgE, IgM, IgG1 and IgG2a production are shown.

Table 333

Compound	IC_{50} (ng/ml)			
	IgE	IgG1	IgG2a	IgM
I-73	0.044	2600	4900	4200
I-963	0.00026	510	3600	3500
I-967	0.1	3500	3600	>10000

Experiment 7 Suppressive effect on bronchial inflammatory cell infiltration by inhalation of antigen.

1. Experimental method

1) Animals

[0196] BALB/c mice bought from Japan SLC, Inc. (Shizuoka) (female, 8-11 weeks old) were used for experiments.

2) Sensitizing and challenge of antigen

[0197] For immunizing, 0.2 ml of a suspension of 2 μg of ovalbumin (OVA; Grade V, SIGMA) and 2 mg of aluminium hydroxide gel in physiological saline was intraperitoneally injected. After 2 weeks, 0.2 ml of a solution of 2 μg of OVA in physiological saline was intraperitoneally injected for a booster. After 1 week, each of mice was put in a nebulizing container (an airtight polycarbonate container, 24.5 cm in inner diameter and 20 cm in effective inner height, equipped with 12 cylindrical tubes of 4.8 cm in inner diameter and 12 cm in height) and made inhale a solution of 5 % ovalbumin (Grade III, SIGMA) in physiological saline for 20 minutes with an ultrasonic neblizer (Omron Tateisi Elec-Tronics co., NE-U12) for the challenge of antigen.

3) Administration of the compound of the present invention

[0198] The compound (I-963) of the present invention was dissolved in N, N-dimethylacetoamide (Nakaraitesk) and diluted one twentieth with miglyol 812 neutral oil (Mitsuba Trading Co., Ltd.) and the solution was orally administered to mice at 40 mg/kg. The administration was continued for 9 days from the booster day to the day before broncho-alveolar lavage.

4) Broncho-alveolar lavage (BAL)

[0199] After 48 hours of the challenge of antigen, the mice were exsanguinated from hearts under ether anesthetic, and the trachea was then cannulated. 0.3 ml of PBS were injected into the lungs and collected, and reinjected four times more (total 1.5 ml).

5) Measurement of the total cell number in BAL solution and classification of inflammatory cells

[0200] After calculation of the total cell number by coloring of a part of BAL solution with Türk solution, cells in BAL solution were put on a slide glass with cytospin (SHANDON) for May-Grünwald-Giemsa (MERCK) staining. Under a microscope, 500 cells were classified to a macrophage, an eosinophil, a neutrophil and a lymphocyte and a proportion of each type of the cells was calculated. The number of each type of the cells was calculated by a multiplication of its proportion and the total cell number.

2. Results

[0201] The results are shown in Figure 4. As shown in the figure, the compound (I-963) of the present invention significantly suppresses increasing number of eosinophils and neutrophils by the challenge of antigen.

Experiment 8 Suppressive effect on the cytokine production of a mouse T cell strain EL-4

[0202] In 48-well plate were added 2 x 10^5 mouse T cell strain EL-4 which were suspended in 0.2 ml of 1 % fetal bovine serum-added RPMI 1640 medium (2 mM of sodium bicarbonate, 50 units/ml of penicillin, 50 μg/ml of streptomycin and 5 x 10^{-5} M of 2-mercaptoethanol were added) and the compound of the present invention of a pre-determined concentration. TPA was added as a cell stimulater at a final concentration of 10 ng/ml to adjust a final volume of each well to 0.4 ml. Each compound of the present invention was dissolved in DMSO and diluted with the above RPMI 1640 medium, and then for added at a final concentration of 100 ng/ml or less. The cells in the 48-well plate were cultivated in an incubator keeping the humidity 100 %, carbon dioxide 5 % and air 95 % at 37 °C for 24 hours to collect a supernatant of each well. The amount of IL-2, IL-4 and IL-5 released in the medium of each well were measured with the ELISA kit (Amersham K. K.) to be taken as an index of the cytokine production of the cells. TPA free group (-TPA) was used as a control. The results are shown in Table 334.

Table 334

Compound	IC50 (ng/ml)		
	IL-2	IL-4	IL-5
I-4	>500	14	120
I-37	>500	7	110
I-39	1300	7	130
I-70	>2000	0.2	1000
I-73	500	20	15
I-83	>10000	140	1000
I-128	>10000	140	450
I-148	>10000	100	11000
I-157	>10000	170	>10000
I-189	>10000	100	10000
I-190	>100	7	10
I-202	>2000	<20	<20
I-209	>200	14	12
I-213	>1000	25	23
I-218	>1000	4.8	30
I-220	>1000	150	720
I-223	1000	16	45
I-226	880	17	300
I-228	>1000	21	30
I-229	>1000	42	80
I-230	>1000	13	20
I-231	>500	9.6	9.2
I-233	>1000	12	3.8
I-237	>100	17	100
I-238	>1000	35	>1000
I-239	>1000	54	900
I-242	>1000	100	880
I-243	>500	63	>550
I-279	>1000	38	90
I-282	>500	<5	130
I-292	>1000	72	600
I-296	>1000	70	47
I-301	500	<10	120
I-302	>1000	25	280
I-305	>1000	10	340
I-307	>1000	52	23
I-309	>500	29	10
I-318	>1000	68	58
I-323	>1000	230	24
I-368	>1000	72	380
I-375	>1000	200	>1000
I-379	>1000	88	>1000
I-386	>1000	68	40
I-387	>1000	75	40
I-390	>1000	200	160
I-392	>1000	50	>1000
I-395	>1000	1-10	>1000
I-403	>1000	13	>1000
I-720	>500	6	110

Formulation Example 1

[0203]

The compound of the present invention	15 mg
Starch	15mg
Lactose	15 mg
Crystalline cellulose	19 mg
Polyvinyl alcohol	3 mg
Distilled water	30 ml
Calcium stearate	3 mg

[0204] After all of the above ingredients except for calcium stearate were uniformly mixed, the mixture was crushed and granulated, and dried to obtain a suitable size of granules. After calcium stearate was added to the granules, tablets were formed by compression molding.

Industrial Applicability

[0205] As indicated in the above experiments, the compound of the present invention has a potent immunosuppressive and/or anti-allergic activity. The compound of the present invention and a substance which has the same activity as the compound of the present invention are very useful for a selective suppressor of the IgE production, an immunosuppressive agent and/or an anti-allergic agent.

Claims

1. A selective suppressor of the IgE production comprising a compound which suppresses the IgE production in a process from a differentiation of a mature B cell into an antibody-producing cell to the production of an antibody and which does not suppress or weakly suppresses the production of IgG, IgM and/or IgA which are produced at the same time.

2. The selective suppressor of the IgE production claimed in claim 1, wherein a suppression of the IgE production is 10,000 times or more that of the IgG, IgM and/or IgA production.

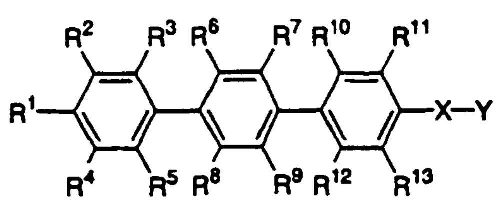
3. The selective suppressor of the IgE production claimed in claim 1 which does not suppress 50 % or more of the IgG, IgM and/or IgA production even at 10,000 times of the concentration at which 50 % of the IgE production is suppressed as compared with that in the absence of the suppressor.

4. The selective suppressor of the IgE production claimed in claim 1, 2 or 3 which suppresses 90 % or more of the IgE production, as compared with that without administration of the suppressor, at which dosage the suppressor does not suppress or weakly suppresses the IgM, IgG and/or IgA production when the suppressor is administered to a mammal sensitized by an allergen.

5. The selective suppressor of the IgE production claimed in claim 1, 2, 3 or 4 which suppresses infiltration of an inflammatory cell to tissue.

6. The selective suppressor of the IgE production claimed in claim 5 wherein the inflammatory cell is an eosinophil and/or a neutrophile.

7. A compound of the formula (I):



(I)

wherein R^1, R^2, R^3, R^4, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{11}, R^{12} and R^{13} are each independently hydrogen, hydroxy, halogen, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkenyl, optionally substituted lower alkenyloxy, optionally substituted lower alkylthio, optionally substituted lower alkoxycarbonyl, optionally substituted acyloxy, optionally substituted lower alkylsulfonyl, optionally substituted lower alkylsulfonyloxy, optionally substituted lower alkylsulfinyl, nitro, cyano, formyl, optionally substituted amino, optionally substituted carbamoyl, optionally substituted sulfamoyl or optionally substituted heterocyclyl,

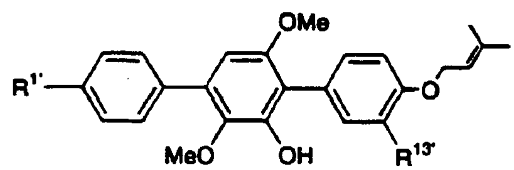
X is -O-, $-CH_2-$,$-NR^{14}-$ wherein R^{14} is hydrogen, optionally substituted lower alkyl, optionally substituted lower alkenyl or acetyl, or -S(O)p- wherein p is an integer of 0 to 2,

Y is optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted acyl, optionally substituted cycloalkyl, optionally substituted cycloalkenyl, optionally substituted aryl or optionally substituted heterocyclyl, and Y may optionally be substituted lower alkoxy when X is $-CH_2-$ and may optionally be substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyl or optionally substituted arylsulfonyl when X is -O- or $-NR^{14}-$,

R^1 and R^4, R^1 and R^2, R^2 and R^3, R^4 and R^5, R^6 and R^7, R^8 and R^9, R^{10} and R^{11}, R^{12} and R^{13}, R^{11} and -X-Y, or R^{13} and -X-Y taken together may form a 5- or 6-membered ring which may contain one or more of O, S or NR^{15} wherein R^{15} is hydrogen, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted arylsulfonyl and which may optionally be substituted,

excluding compounds wherein one or more of R^6, R^7, R^8 and R^9 are halogen and the others are hydrogen, compounds wherein all of R^6, R^7, R^8 and R^9 are halogen and compounds wherein all of R^2-R^{13} are hydrogen, halogen or cyano,

provided that R^1 is not hydrogen, fluorine, optionally substituted lower alkyl or optionally substituted lower alkoxy, all of R^2, R^3, R^4, R^5 and R^{12} are hydrogen, or R^{13} is not hydrogen or halogen when R^6, R^7, R^8 and R^9 are all simultaneously hydrogen, and further provided that R^1 is not methyl or acetyloxy, R^{13} is not hydrogen, optionally substituted lower alkoxycarbonyl or optionally substituted carbamoyl, or - X-Y is not methoxy when at least one of R^6, R^7, R^8 and R^9 is a substituent other than hydrogen, and excluding a compound of the formula (I'):



(I')

wherein $R^{1'}$ is hydrogen or hydroxy and $R^{13'}$ is hydroxy or methoxy, pharmaceutically acceptable salt, hydrate or prodrug thereof.

8. The compound claimed in claim 7 wherein R^1 is hydrogen, hydroxy, halogen, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkenyloxy, optionally substituted lower alkylthio, optionally substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyloxy, lower alkylsulfonyl, formyl, optionally substituted amino, lower alkylsulfinyl, acyloxy, nitro, cyano, optionally substituted sulfamoyl or heterocyclyl,

R^2 is hydrogen, hydroxy, halogen, optionally substituted lower alkyl or optionally substituted lower alkylsulfonyloxy,
R^3 is hydrogen, hydroxy, halogen or optionally substituted lower alkoxy,
R^4 is hydrogen, optionally substituted lower alkyl, halogen, optionally substituted lower alkoxy, nitro or optionally substituted amino,
R^5 is hydrogen, optionally substituted lower alkoxy, lower alkoxycarbonyl or carboxy,
R^6 is hydrogen, halogen, optionally substituted lower alkyl, carboxy, lower alkoxycarbonyl, nitro, formyl, amino or lower alkylsulfonyloxy,
R^7 and R^8 are each independently hydrogen, halogen, optionally substituted lower alkyl, optionally substituted lower alkoxy, formyl or optionally substituted amino,
R^9 is hydrogen, hydroxy, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkenyl, optionally substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyloxy, formyl, optionally substituted carbamoyl or optionally substituted amino,
R^{10} is hydrogen or lower alkoxy,
R^{11} is hydrogen, halogen, optionally substituted lower alkyl, carboxy, lower alkoxycarbonyl, optionally substituted lower alkylsulfonyloxy, formyl, nitro or amino,
R^{12} is hydrogen,
R^{13} is hydroxy, halogen. carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkenyloxy, optionally substituted acyloxy, optionally substituted lower alkylsulfonyloxy, formyl, nitro or optionally substituted amino,
Y is optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl,

optionally substituted acyl or optionally substituted cycloalkenyl and Y may be optionally substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyl or optionally substituted arylsulfonyl when X is - O- or $-NR^{14}-$,

and R^1 and R^2, R^1 and R^4, R^8 and R^9, R^{11} and -X-Y, or R^1 and -X-Y taken together may form a 5- or 6-membered ring which contains one or more of O or NR^{15} wherein R^{15} is the same as defined in claim 7 and which may optionally be substituted,

pharmaceutically acceptable salt, hydrate or prodrug thereof.

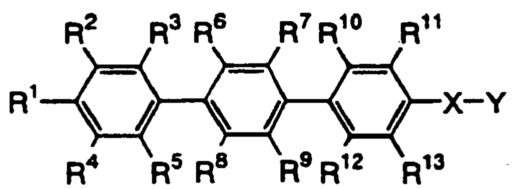
9. The compound, pharmaceutically acceptable salt or hydrate thereof claimed in claim 7 or 8 which has an immunosuppressive effect.

10. The pharmaceutical composition comprising the compound, pharmaceutically acceptable salt, hydrate or prodrug thereof claimed in claim 7 or 8.

11. An immunosuppressor comprising the compound, pharmaceutically acceptable salt, hydrate or prodrug thereof claimed in claim 7 or 8.

12. An anti-allergic agent comprising the compound, pharmaceutically acceptable salt, hydrate or prodrug thereof claimed in claim 7 or 8.

13. An immunosuppressor comprising a compound of the formula (I''):



(I'')

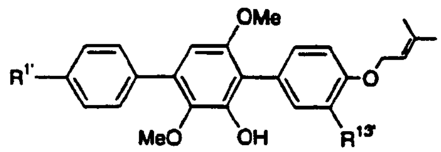
wherein R^1, R^2, R^3, R^4, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{11}, R^{12} and R^{13} are each independently hydrogen, hydroxy, halogen, carboxy, optionally substituted lower alkyl optionally substituted, lower alkoxy, optionally substituted lower alkenyl, optionally substituted lower alkenyloxy, optionally substituted lower alkylthio, optionally substituted lower alkoxycarbonyl, optionally substituted acyloxy, optionally substituted lower alkylsulfonyl, optionally substituted lower alkylsulfonyloxy, optionally substituted lower alkylsulfinyl, nitro, cyano, formyl, optionally substituted amino, optionally substituted carbamoyl, optionally substituted sulfamoyl or optionally substituted heterocyclyl,

X is -O-, $-CH_2-$, $-NR^{14}-$ wherein R^{14} is hydrogen, optionally substituted lower alkyl, optionally substituted lower alkenyl or acetyl, or -S(O)p- wherein p is an integer of 0 to 2,

Y is optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted acyl, optionally substituted cycloalkyl, optionally substituted cycloalkenyl, optionally substituted aryl or optionally substituted heterocyclyl, and Y may optionally be substituted lower alkoxy when X is $-CH_2-$ and may optionally be substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyl or optionally substituted arylsulfonyl when X is - O-or $-NR^{14}-$,

R^1 and R^4, R^1 and R^2, R^2 and R^3, R^4 and R^5, R^6 and R^7, R^8 and R^9, R^{10} and R^{11}, R^{12} and R^{13}, R^{11} and -X-Y, or R^{13} and -X-Y taken together may form a 5-or 6-membered ring which may contain one or more of O, S or NR^{15} wherein R^{15} is hydrogen, optionally substituted lower alkyl, optionally substituted lower alkenyl or optionally substituted arylsulfonyl and which may optionally be substituted,

excluding a compound of the formula (I'):

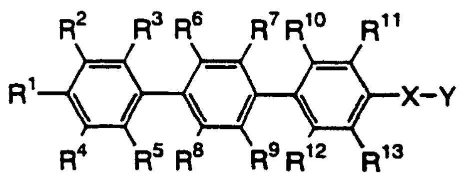


(I')

wherein $R^{1'}$ is hydrogen or hydroxy and $R^{13'}$ is hydroxy or methoxy, pharmaceutically acceptable salt, hydrate or prodrug thereof.

14. An anti-allergic agent comprising the compound of the formula (I"), pharmaceutically acceptable salt, hydrate or prodrug thereof according to claim 13.

15. A process for producing a compound of the formula (I'"):



(I'")

wherein R^1, R^2, R^3, R^4, R^5, R^6, R^7, R^8, R^9, R^{10}, R^{11}, R^{12} and R^{13} are each independently hydrogen, hydroxy, halogen, carboxy, optionally substituted lower alkyl, optionally substituted lower alkoxy, optionally substituted lower alkenyl, optionally substituted lower alkenyloxy, optionally substituted lower alkylthio, optionally substituted lower alkoxycarbonyl, optionally substituted acyloxy, optionally substituted lower alkylsulfonyl, optionally substituted lower alkylsulfonyloxy, optionally substituted lower alkylsulfinyl, nitro, cyano, formyl, optionally substituted amino, optionally substituted carbamoyl, optionally substituted sulfamoyl or optionally substituted heterocyclyl,

X is -O-, $-CH_2-$, NR^{14}- wherein R^{14} is hydrogen, optionally substituted lower alkyl, optionally substituted lower alkenyl or acetyl, or -S(o)p- wherein p is an integer of 0 to 2,

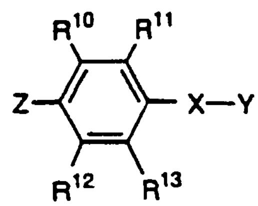
Y is optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted lower alkynyl, optionally substituted acyl, optionally substituted cycloalkyl, optionally substituted cycloalkenyl, optionally substituted aryl or optionally substituted heterocyclyl, and Y may optionally be substituted lower alkoxy when X is $- CH_2-$ and may optionally be substituted lower alkoxycarbonyl, optionally substituted lower alkylsulfonyl or optionally substituted arylsulfonyl when X is - O- or $-NR^{14}$-,

R^1 and R^4, R^1 and R^2, R^2 and R^3, R^4 and R^5, R^6 and R^7, R^8 and R^9, R^{10} and R^{11}, R^{12} and R^{13}, R^{11} and -X-Y, or R^{13} and -X-Y taken together may form a 5-or 6-membered ring which may contain one or more of O, S or NR^{15} wherein R^{15} is hydrogen, optionally substituted lower alkyl, optionally substituted lower alkenyl, optionally substituted arylsulfonyl, and which may optionally be substituted,

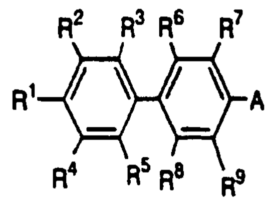
excluding a compound wherein one or more of R^6, R^7, R^8 and R^9 are halogen and the others are hydrogen, compounds wherein all of R^6, R^7, R^8 and R^9 are halogen and compounds wherein all of R^2-R^{13} are hydrogen, halogen or cyano,

provided that R^1 is not hydrogen, fluorine, optionally substituted lower alkyl or optionally substituted lower alkoxy, all of R^2, R^3, R^4, R^5 and R^{12} are hydrogen or R^{13} is not hydrogen or halogen when R^6, R^7, R^8 and R^9 are all simultaneously hydrogen,

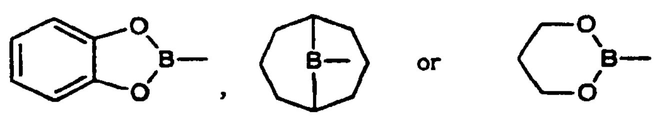
and further provided that R^1 is not methyl or acetyloxy, R^{13} is not hydrogen, optionally substituted lower alkoxycarbonyl or optionally substituted carbamoyl or - X-Y is not methoxy when at least one of R^6, R^7, R^8 and R^9 is a substituent other than hydrogen, pharmaceutically acceptable salt or hydrate thereof, which comprises reacting a compound of the formula (II):


(II)

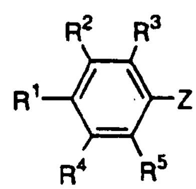
with a compound of the formula (III):


(III)

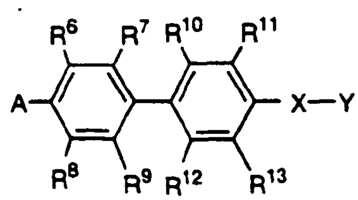
wherein, in the formulas (II) and (III), R^1-R^{13}, X and Y are the same as defined in claim 7, either of A and Z is dihydroxyborane, di(lower)alkoxyborane, di(lower)alkylborane,



and the other is halogen or $-OSO_2(C_qF_{2q+1})-$ wherein q is an integer of 0 to 4, or reacting a compound of the formula (II'):

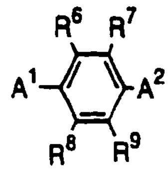

(II')

with a compound of the formula (III'):


(III')

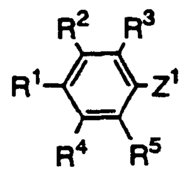
wherein, in the formulas (II') and (III'), R^1 - R^{13}, X and Y are the same as defined in claim 7 and A and Z are the same as defined in the above formulas (II) and (III).

16. The process for producing the compound of the formula (I'''), pharmaceutically acceptable salt or hydrate thereof according to claim 15 comprising the reaction of a compound of the formula (IV):



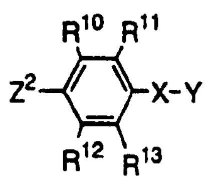
(IV)

with a compound of the formula (V):



(V)

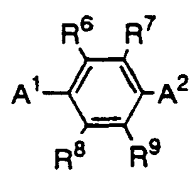
wherein, in the formulas (IV) and (V), R^1 - R^9 are the same as defined in the formula (I) in claim 7, Z^1 is the same as Z defined in the formula (II) in claim 15, A^1 and A^2 are each independently the same as A defined in the formula (III) in claim 15, and the reactivity of A^1 is higher than or equal to that of A^2,
followed by the reaction with a compound of the formula (VI):



(VI)

wherein R^{10}-R^{13}, X and Y are the same as defined in the formula (I) in claim 7 and Z^2 is the same as Z defined in the above formula (II).

17. The process for producing the compound of the formula (I'''), pharmaceutically acceptable salt or hydrate thereof according to claim 15 comprising the reaction of a compound of the formula (IV'):



(IV')

wherein R^6-R^9 is the same as defined in the formula (I) in claim 7, A^1 and A^2 are each independently the same as A defined in the formula (III) in claim 15, and the reactivity of A^2 is higher than or equal to that of A^1,
with a compound of the formula (VI) in claim 16, followed by the reaction with a compound of the formula (V) in claim 16.

Figure 1

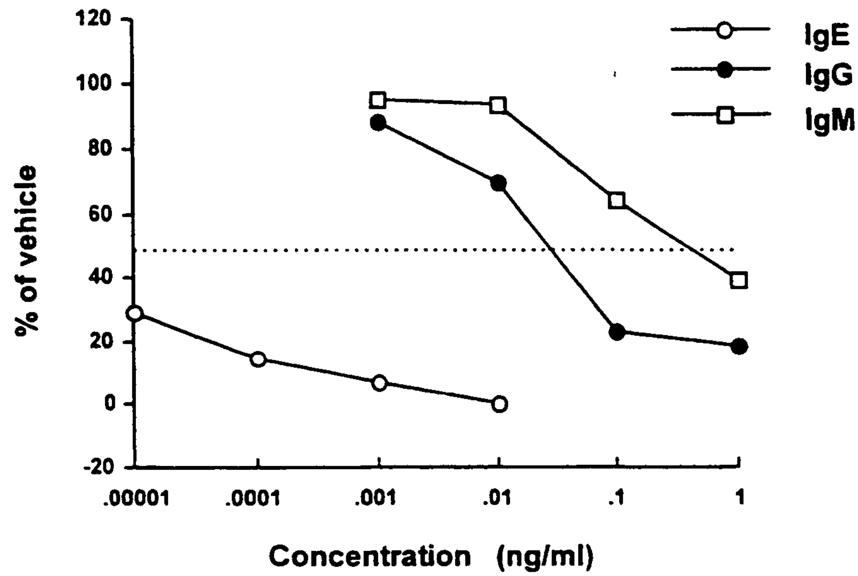


Figure 2

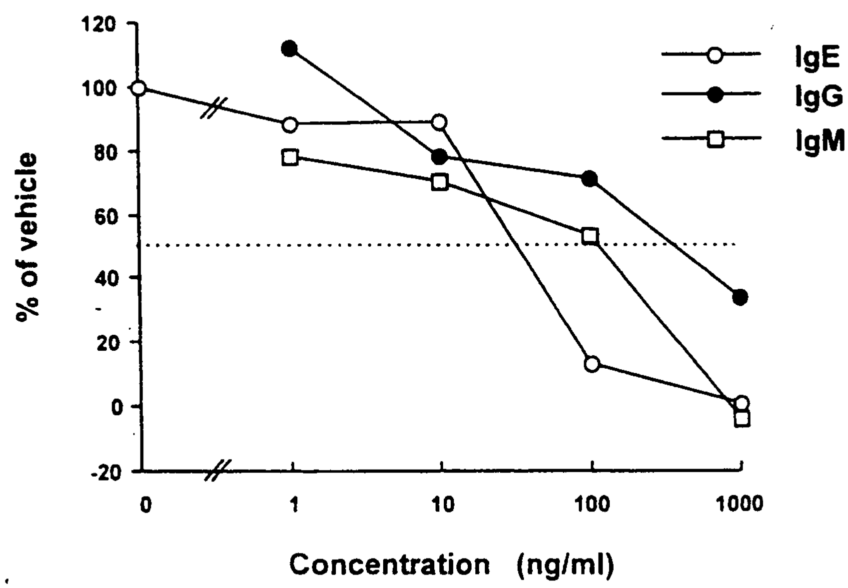


Figure 3

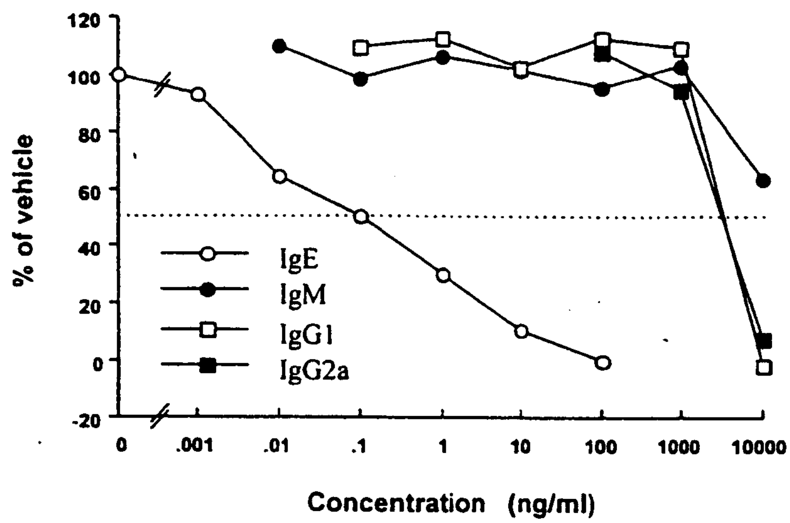
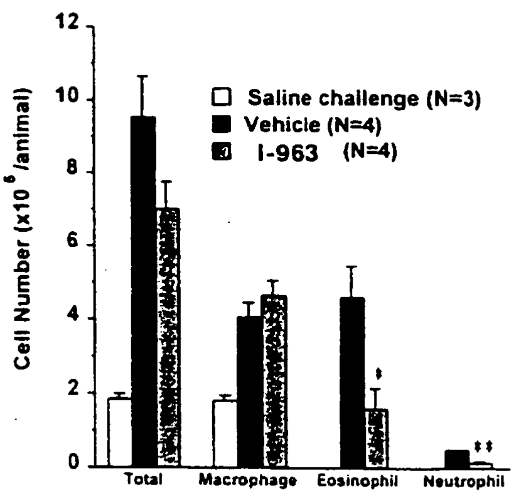


Figure 4



* $P < 0.05$ ** $P < 0.01$ vs Vehicle (Student's t-test)

INTERNATIONAL SEARCH REPORT

International application No. PCT/JP97/02635

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl^6 C07C15/14, C07C25/18, C07C43/20, C07C47/575, C07C65/24, C07C69/734, C07C69/78, C07C205/38, C07C217/80, C07C233/80,

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int. Cl^6 C07C15/14, C07C25/18, C07C43/20, C07C47/575, C07C65/24, C07C69/734, C07C69/78, C07C205/38, C07C217/80, C07C233/80,

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CA(STN), REGISTRY(STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP, 5-25145, A (Mochida Pharmaceutical Co., Ltd.), February 2, 1993 (02. 02. 93), Page 4, left column, lines 2 to 11; example & WO, 93/1815, A1 & EP, 548370, A1	1 - 6
X	Brune, K. 'IPD-1151T: A Prototype Drug for Ice Antibody Synthesis Modulation', Agents and Actions Supplements, 1991, Vol. 34, p. 369-378	1 - 6
X Y A	Tringali, C. et al. 'Previously unreported p-terphenyl derivatives with anti-biotic properties from the fruiting bodies of Sarcodon leucopus (Basidiomycetes).', Can. J. Chem., 1987, Vol. 65, p. 2369-2372	7 - 10 15 - 17 11 - 14
X Y A	Kallitsis, J.K., 'Synthesis and Characterization of Soluble Aromatic Polyesters Containing Oligophenyl Moieties in the Main Chain.', Macromolecules, 1994, Vol. 27, p. 4509-4515	7 - 9 15 - 17 10 - 14

[X] Further documents are listed in the continuation of Box C. [ ] See patent family annex.

* Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
October 15, 1997 (15. 10. 97)	October 28, 1997 (28. 10. 97)
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.

Form PCT/ISA/210 (second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP97/02635

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	Kakali, F. et al. 'Synthesis and Characterization of Soluble Aromatic Polyesters Derived from Substituted Terphenyl and Quinquephenyl Diols', J. Polymer Science part A Polymer Chemistry, June 1996, Vol. 34, No. 2, p. 1581-1587	7 - 9 15 - 17 10 - 14
X Y A	Wagner, Gabriele et al. 'Ferrocene derivatives containing anthracene linked by spacers', J. Organomet. Chem., June 1996, Vol. 516, p. 225-232	7, 9 15 - 17 8, 10-14
Y	Akira Suzuki, Norio Miyaura, "Reactions of Organoboron Compounds in the Presence of Transition Metal Catalysts (in Japanese)", The Journal of Synthetic Organic Chemistry, Japan, 1993, Vol. 51, No. 11, pages 91 to 100	15 - 17
A	JP, 6-507987, A (Merck Patent GmbH.), September 8, 1994 (08. 09. 94), Example 3 & WO, 93/22397, A1 & EP, 591508, A1	7-9, 15-17
P	JP, 8-277247, A (Merck Patent GmbH.), October 22, 1996 (22. 10. 96), Pages 4, 6; example & GB, 2299333, A	7-9, 15-17

Form PCT/ISA/210 (continuation of second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP97/02635

A. (Continuation) CLASSIFICAITON OF SUBJECT MATTER

C07C235/46, C07C251/34, C07C275/28, C07C281/02, C07C281/06, C07C311/22, C07C317/16, C07C323/10, C07D213/30, C07D215/14, C07D233/64, 103, C07D257/04, C07D295/22, C07D303/26, C07D309/22, C07D317/54, C07D319/20, C07D493/05, C07D271/10, C07D333/28, A61K31/09, A61K31/10, A61K31/11, A61K31/135, A61K31/15, A61K31/155, A61K31/165, A61K31/17, A61K31/18, A61K31/19, A61K31/195, A61K31/215, A61K31/235, A61K31/24, A61K31/255, A61K31/27, A61K31/275, A61K31/335, A61K31/34, A61K31/35, A61K31/36, A61K31/38, A61K31/41, A61K31/415, A61K31/44, A61K31/47, A61K31/535, A61K31/60

B. (Continuation) FIELDS SEARCHED

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